The Geography Bulletin is a quarterly journal of the Geography Teachers’ Association of New South Wales. The ‘Bulletin’ embraces those natural and human phenomena which fashion the character of the Earth’s surface. In addition to this it sees Geography as incorporating ‘issues’ which confront the discipline and its students. The Geography Bulletin is designed to serve teachers and students of Geography. The journal has a particular emphasis on the area of the Pacific basin and its near neighbours and a specific role in providing material to help meet the requirements of the Geography syllabuses. As an evolving journal the Geography Bulletin attempts to satisfy the requirements of a broad readership and in so doing improve its service to teachers. Those individuals wishing to contribute to the publication are directed to the ‘Advice to contributors’ on the preceding page. Articles are submitted to two referees. Any decisions as to the applicability to secondary and/or tertiary education are made by the referees. Authors, it is suggested, should direct articles according to editorial policy.

© Copyright 2013 Geography Teachers’ Association of New South Wales Inc.

Unless otherwise indicated in an article, non-profit organisations such as schools and universities may make up to 30 photocopies of any article in this journal without obtaining further permission.
Contents

Editorial ................................................................................................................................... 2
Geography Teachers’ Association NSW Awards 2013 ......................................................... 3
GTA NSW Annual Conference 2013 .................................................................................. 4
Geography of My Stuff
Australian Curriculum: Geographies of Interconnections Year 9 ................................ 5
GeogSpace Resources ........................................................................................................... 9
Exploring the Geography of Food – Year 9 ........................................................................ 13
World Vision resources – Food and Human Wellbeing
Years 9 & 10: Australian Curriculum ................................................................................ 16
Hazards: Year 7 – Atmospheric or Hydrologic
and Year 8 – Geomorphic or Biotic .................................................................................... 19
Maps Explain the World ........................................................................................................ 27
Cartoon Analysis – Telling a Story ...................................................................................... 29
Satellite Images in Geography ............................................................................................ 32
ABS Resources for teaching about population ................................................................... 35
Global Education .................................................................................................................. 36
Using ICT in Geography .................................................................................................... 37
Benefits of GTA NSW Membership .................................................................................... 42
Advice to Contributors ........................................................................................................ 43
The Geography Teachers’ Association of NSW has had a successful and busy term. The annual conference was attended by 350 teachers from urban and rural areas, and Lorraine Chaffer was awarded the Brock Rowe Award and Martin Pluss the Geoff Connolly Award. All conference presentations were placed on the GTA website and evaluation of the conference via Survey Monkey created and published online surveys in minutes. Participants’ tweeted comments as the day progressed.

This edition of the journal focuses on GeogSpace which provides resource materials for Geography teachers. The materials develop knowledge, skills and pedagogical capacity to enable teachers to effectively teach the subject. Over time it is anticipated GeogSpace will continue to grow and become more interactive.

The journal includes teaching material for topics in the Australian Curriculum: Geography:

- Geography of Stuff is a unit of work from the UK Royal Geographical society with IBG. The unit focuses on the Geographies of Interconnections (Year 9)
- Geography of Food is an excellent unit written by the UK Geographical Association appropriate for Biomes and Food Security (Year 9). It contains on-line courses for teachers to aid their teaching
- Food (Year 9) and Human Wellbeing (Year 10) resources are provided by World Vision
- Hazards covering atmospheric or hydrologic (Year 7) and geomorphic or biotic (Year 8) are studied
- Geographical Skills includes Cartoon Analysis, Using ICT in Geography, Satellite Images and Maps.

Key inquiry questions are articulated in articles. Seven geographical concepts are integrated within units of work, and ICT links are included.

**Seven Geographical Concepts**

[Diagram of seven geographical concepts]

Source: Malcolm Mcinerney
Former president of the Royal Geographical Society, Michael Palin noted: ‘Geography explains the past, illuminates the present, and prepares us for the future. What could be more important than that?’

Tim Costello, chief executive officer of World Vision Australia and patron of the Australian Geography Teachers Association (AGTA) stated that ‘over time and with experience we learn to make sense of the world, to understand the processes and systems that make it work the way it does. This learning is the accumulation of observation, measurement, mapping and analysis. We learn to perceive our space, and our sense of place in it, and to make judgments and take actions accordingly.’

As a member of GTA for over 52 years I have decided to retire from the Council and spend more time with family. I am proud to have met extraordinary and hard working geographers on my journey through life and how their love of the subject has been effectively transferred to future generations.

Susan Bliss

GEOGRAPHY TEACHERS’ ASSOCIATION NSW AWARDS 2013

Brock Rowe Award 2013 to Lorraine Chaffer

Over 37 years Lorraine has consistently demonstrated excellence in the teaching of Geography in secondary schools.

Lorraine has been head teacher, head teacher administration and head teacher in teaching and learning. She developed fieldwork activities in collaboration with Rumbularra Environmental Education Centre, and was author of the Jacaranda Geoactive Series, Teachers Edition (Stages 4–5) and Macmillan Geoworld (7 – 10) for the Australian curriculum.

Lorraine has been a member of the School Certificate Exam Committee and participated in consultation forums for NSW DEC on the Australian Curriculum – Geography. Over the years she has been a presenter at conferences for HSC students and Geography teachers. Lorraine was presented with the Rotary Pride of Workmanship Award in 2013 and will assume the GTA NSW Presidency for 2013–2014.

Geoff Connolly Award 2013 to Martin Pluss

For his contribution to over 46 articles since 1983 to the Journal of the Geography Teachers’ Association of NSW.

Martin is the Dean of Learning Technologies at an independent girls’ school in Sydney. He has been a GTA NSW councillor for many years.
The Geography Teachers’ Association of NSW held its annual conference on 30 August 2013 on the topic ‘Geography – Making a difference for Australia.’ The conference was organised by Dr. Susan Bliss with the support of GTANSW councillors (in particular Martin Pluss) and the staff of PTC NSW (mainly Shreela Pradhan).

The conference was held at Rydges Hotel, World Square Sydney, and Global Kids Goals enabled a discount of $9,000, which was the cost of hiring the Ballroom for the day. The popularity of the conference resulted in 350 teachers attending with registration closing two weeks before the event. The function was the most successful GTA conference held in terms of participants and profits.

Speakers included:
- Susan Caldis – ACARA Geography Curriculum
- Prof. Gordon Waitt, University of Wollongong – Geographies of Interconnections (Year 9)
- Rebecca Nicholas – Using Web 2 tools
- Dr Susan Bliss – Hazards (Years 7 and 8)
- Dr Jennifer Curtis – Global Education resources to support the Geography curriculum
- Lindsay Swan, NSW Board of Studies – Implementation of Australian Geography Curriculum
- Dr Tracey McAskill, ACARA – Achievement Standards and Work Sample Portfolios
- Lorraine Chaffer – Place and liveability (Year 7)
- Malcolm Mclnerney – AGTA web-based curriculum support materials
- Nick Hutchinson – Personal geographies (Year 9)
- Milton Brown – Geographies of interconnections (Year 9) and the role of NGO to improve human wellbeing (Year 10)
- Greg Reid – Water in the world (Year 7)
- Dr Alison Gates – Biomes and food security (Year 9)
- Debra Owens – Geographies of interconnections (Year 9)

Numerous door prizes included items from Billabong and a teacher-family tour to New Zealand.

The survey report indicated the program was well organised and topics relevant to the Australian Curriculum: Geography. The speakers were excellent, informative and well prepared, and presentations were available on GTA website. Many teachers used ipads and twitter during the conference to express their thoughts. The hotel layout was superb and food of a high quality. Registration was handled smoothly and response stated exhibits added value to the conference.

However most teachers were surprised to hear the timeline for Geography syllabus and its implementation in NSW will be 2016 – 2017. Some teachers suggested F-6 conference to ensure students entering Year 7 have sound geographical knowledge, understanding and skills, and skills workshops for new geography teachers.
The unit focuses on interconnections that link teenage consumers living in the UK with overseas people, places and environments. It ‘introduces moral, ethical and environmental issues associated with the global trade in consumer goods including child labour and food miles’.

The unit investigates ‘stuff’ such as laptops and reasons for growth of consumerism – especially amongst teens. Music downloads, online ordering of consumer goods and virtual chat rooms are covered. Additionally the unit studies the environmental and social impacts of global trade especially at Christmas and Easter and strategies for action such as recycle, re-use, refuse and replace, and the purchase of locally produced goods.

### Key questions:

- Where does my stuff come from?
- Why do I need so much stuff?
- Who makes our stuff?
- What happens to our stuff when it is no longer required?
- How are we interconnected with people, places and environments in other parts of the world?
- How can we help reduce damage caused by runaway consumerism?
- What are the links between consumerism and:
  - excessive food miles
  - climate change
  - child labour and labour exploitation
  - depletion of non-renewable resources
  - online fraud
  - changes to communities

---

**A Jakarta Mall. Source: Wikimedia Commons**
Lesson 2: Why can people buy more stuff than they used to?

| Societies are continually changing and the average level of wealth in the UK has grown considerably over time. Much of this wealth is now spent on consumer goods and leisure time pursuits.

| Lesson 3: Where do we go to buy our stuff? Different types of retail land use exist.

| Types of retailing: 
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Convenience store: local store such as a newsagent or small grocer. Usually sells only cheap, everyday items (called &quot;low-order&quot; goods) to small numbers of people from perhaps just a few local streets.</td>
<td></td>
</tr>
<tr>
<td>Convenience store: store found in the Central Business District (CBD) of a town, usually selling more expensive (&quot;high-order&quot; goods) that are not usually acquired every day. Includes book shops, shoe shops and electrical shops. Often, comparison stores are urban stores, e.g. Housewares.</td>
<td></td>
</tr>
<tr>
<td>Street market: in some places, vegetables and other foods can be bought from street markets on some days of the week. Other goods, such as clothes, are also sold this way. Street markets are common in older parts of large cities and are sometimes targeted at up-market consumers i.e. organic farmers' markets.</td>
<td></td>
</tr>
<tr>
<td>Out-of-town supermarket: a very large branch of a retail chain, often found at the edge of a town or city in a &quot;retail park&quot;. The largest stores (over 250,000 m²) are called hypermarkets.</td>
<td></td>
</tr>
<tr>
<td>Retail park: an area that has been set aside at or near the edge of a town or city where out-of-town stores can group together. Sometimes, large structures such as the Bluewater shopping centre are built, where retailers can be housed.</td>
<td></td>
</tr>
</tbody>
</table>

Further information can be found in the following article: "Consumers enjoy falling prices".
Lesson 2: The geography of consumption

These sites of consumption bring a range of social and environmental impacts.

Each of the retail types mentioned has its advantages and disadvantages, and a range of social and environmental impacts. The local high street may be accessible and beneficial for community cohesion, but land values are high and there may be traffic congestion and a lack of parking. On the other hand, out-of-town retail parks may provide a wide range of shops and ample parking, but their construction may have environmental implications (perhaps being built on green space), and they may not be accessible to some sectors of the community, for example the elderly. The local convenience store may be accessible, but it won’t stock a wide range of products and will be in direct competition with the new metro supermarkets. Will it take enough revenue to survive, and if it doesn’t, what are the implications again for less mobile members of the community?

Lesson 3: Virtual staff

The geography of consumption increasingly has an online dimension to it.

The growth of online shopping has an impact on shops and stores back in the ‘real world’. There are also implications for the environment.

Of course, the rise in online shopping has implications for shops back in the ‘real world’. Many high street shops are suffering from declining sales, and this is especially the case for music and DVD stores as more and more people are downloading music and films from the internet onto their computers and iPads.

You can buy music legally on the Internet from sources such as iTunes. However, some people also share CDs by copying them and some music files are posted on the Internet where others can gain access to them. If music is downloaded illegitimately from unofficial sources like these, this is called piracy. The Internet is having a major effect on the music industry and how it runs. If people do not pay for music, record companies will have less money to invest in future bands. The Internet means that CD sales have fallen, and as a result, so have profits for the performers: the songwriters and the record companies.

When it comes to the environment, online shopping has both positive and negative implications:

- Cheaper purchasing online means even more products are being manufactured and sold - all of which requires energy and is responsible for more carbon dioxide being emitted.
- Some online purchases are delivered in vans and lorries meaning that there are more large vehicles on our roads.
- More and more people are using computers to download and listen to music and films. This leads to computers being left on all day (and all night sometimes), which uses a lot of energy.

Lesson 4: The kids who make our stuff

Our own lives (as consumers) connect with those of children living in poorer nations (as producers) through the geography of consumption.

Firms like Google have offices containing tens of thousands of computers to help people to search for products online. This uses up enormous amounts of energy.

- More people are downloading music, books and newspapers onto their iPads and computers.
- Power: CDs, books and newspapers are made which saves paper - and trees.
- Some shops are shutting down (e.g. CD and book shops, electrical and book shops) as people are buying online. This means less people travel into towns centres causing less pollution and congestion.
- Many online purchases are delivered in the normal way by Royal Mail, so there is no increase in transport and pollution.

With the rise in the number of people shopping online, the potential for net crime increases. 30% of targeted attacks on computers are aimed at home users. Attacks include hacking, viruses, spam and phishing. Many people still don’t take basic steps to protect themselves from net crime, with a 27% with no anti-virus software and 12% with no firewall. The safer online website provides people with information about how they can protect themselves online. Read more from the BRC website.

With the rise in the number of people shopping online, the potential for net crime increases.
Lesson 6: Global impacts and possible actions

The demand for consumer items in the UK has impacts which are spread across the globe.

Our consumption has impacts on a range of different societies and environments.

Consumerism is linked with issues on a range of scales that have been covered in this unit so far:
- Excessive food miles and climate change
- Loss of green belt land
- Child labour and labour exploitation
- Depletion of resources
- Online fraud
- Changes to our communities

In the UK we consume a lot. As a result, we throw away a lot of rubbish. Currently, levels of household waste in the UK are increasing at a rate of 2% each year. This equates to a doubling of waste every twenty years. Waste levels spike during Christmas and New Year, with about one tonne of our annual rubbish (three million tonnes) being generated over the festive period. The government sponsored organisation Recycle Now estimates that we throw away one billion Christmas cards, eight million Christmas trees and 735 million bottles every year. Turkey fail ore alone creates 3,900 tonnes of waste and 0.1 million km³ of wraping paper are used. This creates a huge impact on the environment.

Currently, 75% of waste ends up in landfill, although new laws are being introduced in the UK that will impose taxes on local councils if more materials are not recycled. But waste isn’t the only environmental problem created by the Christmas festival. According to scientists at the Institute of Physics, the UK generates 1.9 million tonnes of extra greenhouse gases at this time of year roasting turkeys, watching extra TV and lighting up houses with Christmas lights.

In the UK we have also increased our consumption of bottled water at the fastest rate of any country in Europe over the last five years. This is strange, considering that we have some of the best quality tap water in the world. The impact of these plastic bottles - which take hundreds of years to decompose - is huge as the vast majority of plastic bottles are neither reused nor recycled.

But it is not just our own landfill sites that are suffering. Much of our waste is shipped 5000 miles for recycling in China. In 2006, China exported $12.8 billion worth of manufactured goods to the UK, and received 1.9 million tonnes of rubbish in return. It is illegal for EU countries to export waste for disposal, but it can be shipped out for incinerating. Unfortunately, many of the incinerating plants in China are not regulated, creating pollution and health risks. You can read more about the recycling of UK waste in China in these two articles from the Guardian online website: Waste sent and British waste added to environmental crisis across China.

There are four actions (the 4Rs) that can help us use less of the earth’s natural resources:
- Recycle – waste products are broken down and used to make another product, for example plastic bottles are melted down and used to make new bottles, or in some cases, fleece! Paper can be pulped and used to make new paper, meaning that fewer trees need to be cut down.
- Reduce – many items can be reused several times before they are thrown away, for example plastic bags or plastic bottles, which can be refilled from the tap. Reusing items means that fewer need to be manufactured in the first place, saving valuable resources.
- Refuse – before buying something new, ask yourself whether you really need it. Consider refusing to buy excessively packaged goods – this type of consumer boycott puts pressure on manufacturers to reduce their packaging. Take your own bag to the supermarket and refuse a plastic carrier bag.
- Repair – before throwing away a broken object consider whether it can be repaired – either by yourself or by a professional. Things can be stitched, broken toys glued, even stoves can be fixed. Getting something repaired rather than buying a replacement again saves resources and prevents more and more waste being sent to landfill.

A Jakarta Shopping Mall. Source: Wikimedia Commons
The Year 7–10 Geography curriculum contains two topics for each year level with one focussed on physical geography and the other on human geography. The following topic coverage is:

- Water in the world (7)
- Place and liveability (7)
- Landforms and landscapes (8)
- Changing nations (8)
- Biomes and food security (9)
- Geographies of interconnections (9)
- Environmental change and management (10)
- Geographies of human wellbeing (10)

Unlike the F–6, a curriculum narrative is much more difficult to articulate, though such a process is an interesting activity for faculties to undertake in an effort to deconstruct the curriculum and develop their own rationale for the curriculum progression.

GeogSpace on-line resources

Once the Geography curriculum was written, AGTA saw the need to develop resources to support it. In March 2012, AGTA was successful in tendering to undertake the development of the Geography on-line resources for the Educational Services Australia (ESA) Supportive the Australian Curriculum On-line (SACOL) project. AGTA commenced developing the resource, to be known as GeogSpace, in July 2012 and employed 12 writers from across Australia to write innovative and comprehensive illustrations of practice linked to the Australian Curriculum: Geography. On 31 May 2013, the GeogSpace site went live at www.geogspace.edu.au and was met with great enthusiasm from geographers around Australia who saw the resource as much needed support to the successful implementation of the new curriculum. The illustrations of practice are not just activities for students but have also been designed to provide materials for quality professional learning. GeogSpace was developed with the following in mind: To:

- be a resource to support the teaching of the Australian Curriculum: Geography
- provide the framework, content pedagogical knowledge, teaching approaches and resources to support professional learning across Australia
- have the capacity to support the delivery of professional learning to “Geography” and “non-Geography” Geography teachers
- cater for primary and secondary school implementation of the Australian Curriculum: Geography
integrate ICTs throughout the curriculum relevant to the teaching of Geography

reflect “world best practice” i.e. range of sources, in particular the UK Geography teaching resources have been purchased

be a free website (open to all) containing over 60 illustrations of practice and professional learning objects

be written and developed by Australian Geography teachers from every state of Australia – a first ever resource for Australian Geography teaching

be a 21st Century Geography resource dedicated to the Australian Curriculum: Geography.

GeogSpace structure

The GeogSpace site comprises two major resource sections – Core units and Support units.

Core units comprise illustrations of practice for stages of schooling described in the Australian Curriculum: Geography.

Support units provide illustrations of practice designed to support teachers’ professional learning and provide guidance, information and resources in eight areas of geographical education:

1. Thinking geographically: Illustrations to develop and enrich the geographical imagination and exploring vocabulary to adequately express the richness of geographical concepts.

2. Why teach geography?: Illustrations to explore how geographical studies help students to understand the uniqueness of their own place, the world they live in and their involvement within it.

3. Professional practice: Illustrations to explore how teachers can support students whose attitudes, abilities, cultural backgrounds and preferred learning styles vary greatly.

The illustrations are provided for Years F–4, Years 5–6, Years 7–8 and Years 9–10.

The illustrations are designed to provide classroom-ready ideas and resources that reflect the dynamism of Geography. Each illustration is linked to the curriculum and provides opportunities for students to actively engage in learning, whether it be through undertaking class research, practical activities, field investigations or through taking local action.

The Core units have three sections for each of the stages of schooling:

1. Key understandings: the fundamental understandings are articulated and illustrations of practice are developed to model the understandings.

2. Inquiry and skills: the key inquiry and skills for the stage are articulated and illustrations of practice are developed to model the skills.

3. Exemplars: learning activities have been designed as illustrations of practice, directly linked into the content descriptions of the curriculum.
4. Fieldwork: illustrations to support the use of fieldwork as a physical activity of "exploring Geography".
5. ICTs in Geography: illustrations to promote the use of geospatial technologies to support spatial thinking and to make the acquisition of knowledge more efficient and engaging.
6. Assessment in Geography: illustrations to support teachers in understanding the standards, and how to apply them in both planning and practice.
7. Language of Geography: illustrations to explore how literacy learning practices that can be employed in the Geography classroom.
8. Geographical inquiry: illustrations to show how geographical inquiry can give students the opportunity to actively engage in understanding their own place and the world they live in.

It is anticipated GeogSpace will continue to grow and become even more interactive and comprehensive as it reflects the dynamism of geographical education in the 21st century. AGTA welcomes feedback about the GeogSpace site and resources and looks forward for the resource to be used across Australia, as it is intended, to support the implementation of the curriculum. Feel free to advertise in any way possible amongst your colleagues interested in teaching the Australian Curriculum: Geography and “learn” about modern Geography in schools (flyer below, available on the AGTA site at www.agta.asn.au.

Spatial technology

After years advocating for the use of spatial technology in schools, the Australian Curriculum: Geography overtly refers to the use of GIS and other spatial technologies as not only desirable but as an expectation.

“In Geography, students develop ICT capability when they locate, select, evaluate, communicate and share geographical information using digital technologies and learn to use spatial technologies.”

From the General capabilities section of the ACARA Rationale for geography at www.australiancurriculum.edu.au/Geography/General-capabilities.

Such an overt reference to the use of spatial technology in the document is an important adjunct to our efforts to use the modern technology of Geography in geography classrooms. Whilst an opportunity, for this expectation to not be a risk to the teaching of the curriculum, considerable time and effort needs to put into building the capacity of teachers to meaningfully use spatial technology. What the curriculum has done is give a green light for such work!
Fieldwork
As have all GTAs across Australia, the GTNSW has been a strong advocate of fieldwork as an important and integral part of Geography. Whilst cautious in mandating fieldwork, the curriculum does make overt reference to fieldwork as an important activity if a school intends to conduct quality geographical education. “They conduct fieldwork, map and interpret data and spatial distributions, and use spatial technologies.”

From the Rationale of the curriculum at www.australiancurriculum.edu.au/Geography/Rationale

Although it is somewhat disappointing that fieldwork is not specifically mentioned in the content descriptions in the Inquiry and Skills strand, fieldwork is implied in year level Content Descriptions and Elaborations in most years. For example:

“Evaluate sources for their reliability, bias and usefulness, and represent multi-variable data in a range of appropriate forms, for example, scatter plots, tables, field sketches and annotated diagrams, with and without the use of digital and spatial technologies.”

Year 9 content description

… “Interpreting and creating maps such as flow and choropleth maps, or plans for specific purposes, for example, a bushfire management plan mapping geographical data using spatial technologies, the location of recent bushfires in Australia, or information they have collected through fieldwork.”

Year 5 elaboration

It is also worth noting that fieldwork was implicit in the 2011 Shape Paper for the curriculum with statements such as:

“The Australian Curriculum: Geography will involve field work at all stages, as this is an essential core component of geographical learning. Field work is any study undertaken outside the classroom, and could be within the school grounds, around the neighbouring streets, or in more distant locations.”


Inquisitive inquiry
As geographers we are keen to nurture the inquisitiveness of students so that they can develop an understanding of the geographical world for themselves. Such inquisitiveness and questioning is an important component of the inquiry approach, an approach strongly embedded and enunciated in the curriculum through the structure and content of the Inquiry and Skills strand. As is stated in the curriculum:

“Geography uses an inquiry approach to assist students to make meaning of their world. It teaches them to respond to questions in a geographically distinctive way, plan an inquiry; collect, evaluate, analyse and interpret information; and suggest responses to what they have learned.”

The Rationale at www.australiancurriculum.edu.au/Geography/Rationale

“Geography aims to ensure that students develop the capacity to be competent, critical and creative users of geographical inquiry methods and skills.”

Aim number 4 of the curriculum at www.australiancurriculum.edu.au/Geography/Aims

Such an integrated focus on geographical inquiry as developed in the new curriculum lends great support to quality student centred geographical learning and should be a useful guide to the nature of the pedagogy employed in the teaching Geography.
The ‘Global Food Crises’ is continually in the news. Available and accessible food for over 7.1 billion people constantly changes when areas experience floods, droughts, cyclones and climate change. To update information newspapers and media reports are required to be sourced from a range of perspectives. It is important to use the inquiry approach when studying the topic to obtain balanced information, as well as classroom activities such as debates, role plays and Six Thinking Hats.

Introduction

UK Geographical Association noted that food is a basic human right and the production and consumption of food connects people with environments, water cycle, trade and aid. The following Geographical Association courses, explore the development of the coming ‘perfect storm’ and its relationship with food. The courses also provide opportunities for students to develop digital and media literacy by engaging in a range of web based resources.

Courses

Getting Started

My learning journey – what will I focus on and how will I achieve this? 1 hour – http://www.geography.org.uk/cpdevents/onlinecpd/geographyoffood/gettingstarted

Why is hunger a geographical issue?

This course looks at geographical issues related to hunger. 1.5 hours – http://www.geography.org.uk/cpdevents/onlinecpd/geographyoffood/hunger

OXFAM and ‘The Perfect Storm’

How is increased food production and a worsening of environmental conditions contributing to a ‘perfect storm’? 1 hour – http://www.geography.org.uk/cpdevents/onlinecpd/geographyoffood/theperfectstorm/

Climate change and food supply

How does climate change impact upon food production and supply? Thinking about possible futures. 1.5 hours – http://www.geography.org.uk/cpdevents/onlinecpd/geographyoffood/climatechange/

Plenty more fish in the sea?

This course introduces the issues surrounding sustainability and looks at measures designed to overcome these issues. 1 hour – http://www.geography.org.uk/cpdevents/onlinecpd/geographyoffood/plentymorefish

Cooking up a storm?

This course explores the implications of different methods of food preparation for the environment. 1.5 hours – http://www.geography.org.uk/cpdevents/onlinecpd/geographyoffood/cookingupastorm

Plenary: Thinking about food futures

What is the future of our food supply? This course also provides a framework for reflection and suggests how you might share your learning. 45 minutes – http://www.geography.org.uk/cpdevents/onlinecpd/geographyoffood/plenary
EXPLORING THE GEOGRAPHY OF FOOD – YEAR 9

Food Security

‘Food security refers to the availability and accessibility of food and is an issue that affects everyone.’ – http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/

Courses

Getting Started
Introducing the topic of food security.

Supermarket Shock
Take part in an imaginary shopping trip to explore how shoppers are responding to rising food prices by cutting costs.– http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/supermarketshock/

Local Food Strategies
What strategies would you and your pupils be prepared to use in a situation of food insecurity? – http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/localfoodstrategies/

Global Food Strategies

The Perfect Storm
What is ‘the perfect storm’ and what are the factors that are contributing to it? – http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/theperfectstorm/

Food Aid
Food aid – is it just something that is needed overseas? This unit looks at food bank schemes operating in the UK. – http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/foodaid/

Getting the Message Across
In this unit we explore how charities such as Oxfam use media campaigns to get their message across. – http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/gettingthemessageacross/

Making a meal of it: Creating a presentation
In this unit you will learn how to use a web tool called Animoto to create a multimedia classroom presentation. – http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/makingamealofit/

Pedagogy and Thinking
What is the theory behind the practice? This section looks at controversial issues, enquiry, values and more. – http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/pedagogyandthinking/
EXPLORING THE GEOGRAPHY OF FOOD – YEAR 9

Plenary
A final reflection on the units, and a collection of links and resources to guide your own further research.

Activity 1: Food for thought
Source: http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/gettingstarted

Take a large blank sheet of paper, open a mind-mapping software package such as Inspiration (http://www.inspiration.com) or visit an online mind-mapping site such as MindMeister (http://www.mindmeister.com) or free software such as FreeMind (http://freemind.sourceforge.net/wiki/index.php/Main_Page).

‘Create a mind-map with the word FOOD in the centre and think of the possible curriculum links that could be explored, resources that could be tapped into, people who could be contacted and personal experiences which could be investigated. Additional support could be given by providing a range of key questions to direct the mind-mapping in particular directions. Suggest what those questions might be. At this stage, the aim should be to consider all possibilities, which can then be narrowed down later when you move on to one or more of the other courses in this family.’

Activity 2 Changes to food
Source: http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/gettingstarted

Take a look at the image above which shows the amount of rice that a wage in Cambodia could buy in 2008 compared to 2007. What might have caused this situation to happen? How are you and your students being affected by the rising cost of food?

Activity 3: World food
Source: http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/supermarketshock/

Discuss the issues concerning food

Activity 4: Futures
Source: http://www.geography.org.uk/cpdevents/onlinecpd/foodsecurity/plenary

What is meant by the future of food security? How is this difficult to determine? How can more people in the future become food secure?

ICT
Oxfam World Food Crises – http://www.oxfam.org.uk/whatever-we-do/issues-we-work-on/food
Food for Thought. Resources for teaching about food by Tony Cassidy – http://www.radicalgeography.co.uk/Food.html
BBC NEWS: Special Report on ‘The cost of food’, contains numerous images and reports as well as links to a large number of related articles – http://news.bbc.co.uk/2/hi/in_depth/world/2008/costoffood/default.stm
Worldmapper – A collection of world maps, where territories are re-sized on each map according to the subject of interest. Many of these are related to the issues considered in this course – http://www.worldmapper.org/
Food for a Healthy Planet. Part of the Climate Choices – Children’s Voices website from Practical Action exploring, amongst other things, the concept of ‘food miles’, with some helpful resources. – http://www.climatchoices.org.uk/pages/food0.htm
Raj Patel – The author of Stuffed and Starved maintains this blog that contains articles on food and development and related issues – http://rajpatel.org/
This article addresses the Year 9 unit Biomes and food security and the Year 10 unit Global geographies of human wellbeing. It explores the challenges of food security, including land and water degradation, soils, competing land uses and climate change. These resources look at two very different Indonesian islands, Bali and Sumba.

Overview:
- Tale of two islands
- Bali – rice and forests
- Sumba – corn and savanna grassland
- Food security strategies
- Reflections and thinking hats

Complete the following activities
Food security strategies

Over the years, the communities on Sumba have explored a range of strategies to address their food security. In 1998, the United Nations Development Programme (UNDP) conducted a “Food for Work” program, where families were provided with corn and rice in exchange for working on community development projects.

The success of the program led to the creation of a community-owned and operated food bank that distributed food to those in need. The bank was so successful that after a year and a half, it was able to sustain itself without any external funding.

Another important strategy is to increase the production of crops that are more drought-resistant. The communities have been using traditional agricultural practices and are now experimenting with new varieties that are better adapted to the local climate.

Despite these efforts, food security remains a challenge for many communities in Indonesia. The government, along with local NGOs, is working to address these issues and ensure that all communities have access to a stable food supply.
Reflection and action

<table>
<thead>
<tr>
<th>I was surprised to find out...</th>
</tr>
</thead>
<tbody>
<tr>
<td>The most interesting thing I learnt was...</td>
</tr>
<tr>
<td>I would like to know more about...</td>
</tr>
<tr>
<td>I don't understand...</td>
</tr>
<tr>
<td>One thing I would like to do now is...</td>
</tr>
</tbody>
</table>

Edward de Bono’s thinking hats

Use de Bono’s six-thinking hats to explore Australia’s engagement with Asia: Indonesia. The includes the DVD chapter and written resources.

- **White hat:** What are some of the facts you learnt as a result of looking at this topic?
- **Red hat:** How do you feel as a result of looking at this topic? Hopeful, angry, depressed, or did disappoointed, something else?
- **Black hat:** What were some of the negative aspects to this topic?
- **Yellow hat:** What are some of the positive, encouraging or helpful aspects of this topic?
- **Green hat:** What are some ideas or possible actions that could address an issue in this topic?
- **Blue hat:** What is the “big picture” behind this topic? What have you learnt about Australia’s engagement with Indonesia?
Curriculum links

Year 7/1 Atmospheric or Hydrologic hazard
- Elaborations
  - explaining economic, environmental and social impacts of a selected atmospheric or hydrologic hazard on people and places
  - describing community responses to the hazard
- Inquiry and skills
  - using graphs, weather maps and satellite images examine temporal and spatial patterns of a selected hydrologic hazard in Australia, and another region of the world, for example countries of the Asia region

Year 8/1 Geomorphic or Biotic hazard
- Content Descriptor
  - causes, impacts and responses to geomorphic hazard
- Elaborations
  - investigating the natural causes and spatial distribution of a geomorphic hazard e.g. volcanic eruptions, earthquakes, tsunamis, landslides and avalanches or biotic hazard such as a bushfire that effects a landscape
  - describing how the effects caused by geomorphic hazards are influences by social, cultural and economic factors e.g. where people choose to live, poverty and lack of infrastructure and resources to prepare and respond
  - researching how the principles of prevention, mitigation and preparedness minimises the harmful effects of geomorphic hazards or bushfires

Mother Nature’s unexpected acts
- some parts of the planet experience ravaging tornadoes, hurricanes, earthquakes, volcanic eruptions, fires
- damage caused by these hazards are generally unpredictable. In some countries like Australia residents have learned to prepare for these disasters. However, sometimes no amount of planning is inadequate

Overview Year 7 – Atmospheric or Hydrologic Hazards

Hydrological hazards comprise 90 per cent of the world’s environmental hazards. The physical causes of hydrological hazards such as droughts, floods and storms such as tropical cyclones, hurricanes, typhoons, blizzards and dust storms, have economic, environmental and social impacts on people and places in Australia and overseas. Human activities have also impacted on the frequency and severity of hydrological hazards. Climate change has significantly affected the water cycle by increasing the temperature and water vapour in the atmosphere. This has changed global circulation patterns and increased the potential for extreme hydrological hazards.
Global overview of extreme storms

- **USA dust storms**
  - 1930s – Dust Bowl
  - 5,000 people killed

- **Global overview of extreme storms**
  - Canada ice storm one million people lost power and 25 died
  - North America winter storm or Groundhog Day Blizzard affected 100 million people. Planes grounded, schools closed, power shut down Christmas 2010
  - USA in Tornado Alley 1,897 tornadoes killed 552 people, 2011
  - USA Hurricane Katrina one of five deadliest hurricanes in USA, 2005
  - Coastal Brazil Cyclone Catarina destroyed 1,500 homes and damaged 40,000 others. About 85% of bananas and 40% of rice were lost
  - Atlantic hurricane season between June and November affects Mexico, Cuba and Caribbean Islands
  - Kampala Uganda 242 days of thunderstorms a year
  - Kereche, Kenya hail falls 132 days a year
  - Western Africa dust plume spanning hundreds of kilometres blew off the coast, 2012
  - East Madagascar at least 16 people killed from Cyclone Giovanna with winds raging at 260 km/h, 2012
  - Blizzard Alley Antarctica has hurricane strength snowstorms for weeks, travelling about 60 km/h carrying sleet
  - Sydney, hailstones up to 90mm in diameter fell for 60 minutes damaging 20,000 buildings and 40,000 vehicles, 1999
  - Australia dust storm stretched from South Australia, NSW, southern Queensland and New Zealand, 2009
  - Western Pacific typhoons most active season with 39 tropical storms 1964
  - NW Pacific Ocean, Typhoon Tip most intense storm with air pressure of 870 hectopascals (hPa) and wind speeds of 310 km/h 1979
  - China’s Typhoon Nina killed nearly 100,000 people in 1975
  - Far North Queensland coast Cyclone Yasi, devastated region around Cardwell and Tully 2011. Worst cyclone to hit Australia since 1899

- **Key**
  - White: hailstorms and blizzards
  - Red: dust and sand storms
  - Grey: thunderstorms
  - Orange: tornadoes
  - Lime green: cyclones, hurricanes and typhoons

- **Additional information**
  - April 3, 2004, this supercell thunderstorm dropped 2 inch-diameter hail over Chaparral, New Mexico causing widespread damage. Image source: Wikimedia Commons

- **Death counts and impacts**
  - Iran week long blizzard killed 5,000 people 1972
  - Myanmar Cyclone Nargis killed 130,000 people 2008
  - Himalayan Mountain blizzard killed 5,000 people, India 1996
  - East Pakistan – Bangladesh cyclone killed 100,000 to 1 million 1970
  - Pakistan and Middle East extreme dust storm, 2012
  - Bangladesh deadliest tornado killed 1,300 people 1989. Over 2000 people have been killed in 19 tornadoes, almost half of the total for rest of world.
  - China dust storm circled world in 13 days 2009
  - China and Asia blizzards: 129 deaths, roofs collapsed, reduced power supply and transport, 2008
  - South India 42 people die in Cyclone Thane. 50,000 thatched huts damaged by winds, 2011
  - China dust storm circled world in 13 days in 2009
  - Bangladesh deadLIest tornado killed 1,300 people 1989. Over 2000 people have been killed in 19 tornadoes, almost half of the total for rest of world.
  - Bangladesh deadliest tornado killed 1,300 people 1989. Over 2000 people have been killed in 19 tornadoes, almost half of the total for rest of world.
  - Bangladesh deadliest tornado killed 1,300 people 1989. Over 2000 people have been killed in 19 tornadoes, almost half of the total for rest of world.
  - Bangladesh deadliest tornado killed 1,300 people 1989. Over 2000 people have been killed in 19 tornadoes, almost half of the total for rest of world.
  - Bangladesh deadliest tornado killed 1,300 people 1989. Over 2000 people have been killed in 19 tornadoes, almost half of the total for rest of world.
Natural hazards can be divided into:

- atmospheric: cyclones, floods, droughts, tornadoes and fires
- geomorphic: volcanic eruptions, earthquakes, landslides, avalanches and tsunamis
- biologic: epidemics and famine

**What is a hydrologic hazard?**

Hydrological hazards may be classified according to the main processes that create them. Some environmental hazards are caused by several interrelated processes. For example, tropical cyclones cause flooding and trigger mudslides on steep slopes saturated with rainfall. Tropical cyclones also create storm surges that may affect coastal regions.

According to the World Meteorological Organisation (WMO), about 90 per cent of environmental hazards are hydrological in origin. Environmental hazards occur at a range of temporal and spatial scales. They are inevitable and unstoppable events that have been happening for billions of years. Humans have no control over them. However, the world’s leading scientists have shown that hydrological hazards are becoming more frequent and more intense at a range of scales due to climate change.

Hydrological hazards may be slow- or rapid-onset events that occur at or near the Earth’s surface. Some hydrological hazards such as tornados tend to occur in specific areas while others such as droughts and floods are more widely distributed.

**Hazards versus disasters**

Hydrological hazards are part of nature. However, if a hydrological hazard leads to loss of human life, damage to property, infrastructure and economic assets, it is classified as a hydrological disaster. Economic losses from hydrological disasters in developing countries are 20 times greater as a percentage of GDP than developed nations.

Vulnerability and high proportional economic risk of environmental hazards

**Map: Vulnerability to two or more hazards**

Source: http://www.worldbank.org/ieg/naturaldisasters/
Economic costs
American financial expert, Warren Buffet claimed that environmental disasters (which consist mostly of hydrological hazards) have a more serious economic impact than terrorism. Extremely large hydrological disasters can cripple a country’s economic growth for decades. People need to be rescued, sheltered, fed, watered, clothed and cared for. Law and order needs to be maintained to prevent looting. Power, water and gas supplies need to be repaired and reconnected. Damage from hydrological disasters needs to be removed and infrastructure, houses and businesses repaired and rebuilt. Local governments often bear the brunt of the costs, but governments usually help, especially if the event is significant enough to be officially declared a disaster. If the disaster overwhelms the capacity of national resources, the country may request international assistance. Taxpayers ultimately finance disaster management activities. Individuals in wealthy countries who have insurance cover may recoup

Environmental and societal costs
Hydrological disasters can damage the natural environment especially when contaminants are released into the soil, air and water. Sewage often pollutes waterways during floods. Cleaning up this environmental damage adds significantly to the cost of disasters for governments.

Hydrological disasters have a profound effect on communities. Social networks are disrupted as people are displaced and forced to relocate. School and home life is fractured and takes time to return to normal. The sense of community pride and spirit may also suffer. The effects on marginalised minorities such as those who are non-English speaking, elderly, homeless, disabled or on lower incomes is greater than on those who are better able to cope for themselves.

Are disasters more frequent?
The number of hydrological events has increased. Scientists believe that this is linked with climate change, particularly the increases in extreme temperatures and rainfall. Global sea temperatures have risen over the past century and this contributed to an increase in hydrological disasters, even though some of these such as hurricanes may be cyclical in nature. However, there is now more international reporting of environmental disasters than previously because of increases in relief and reconstruction assistance. In addition, accurate modern technology for observing natural events has increased along with the number of specialised agencies that track and report hydrological disasters.

Australia’s worst environmental disaster is the ‘Black Saturday’ bushfires of 7 February 2009 in which 173 people were killed and 2,298 homes destroyed.

World’s costliest environmental disasters since 1965 in terms of insured loss and economic loss

Source: http://www.economist.com/blogs/dailychart/2011/03/natural_disasters
Reducing disaster risks
Risk is defined as the exposure of people to an environmental hazard. Risk can be reduced by undertaking an assessment to identify hazards and how people can best cope with them. Increasing people’s awareness of risks as part of a public education campaign reduces the risk of negative consequences when environment hazards occur. Governments need to address the risks through laws and by providing structures and organisations to help communities plan for disasters. Emergency practice minimises loss of life in the event of a disaster, but is virtually impossible to organise in poorer countries. Reducing the risk of disaster also includes building large engineering solutions such as dams and levees. These are effective in diverting and reducing floods, especially in the heavily populated, extensive floodplains of eastern China.

Comprehensive early warning systems are essential to reduce the number of lives lost to hydrological hazards. For example, tropical cyclone Yasi that hit North Queensland in 2011 was the world’s largest tropical storm, but despite the destruction to property and the environment, it claimed only one life because affected communities were well prepared. When the Indian Ocean tsunami of 2004 claimed more than 250 000 lives, there was no early warning system for the Indian Ocean. At that time, only the Pacific Ocean had such a system. Now there is an early warning system which has been used successfully to alert people to possible tsunamis.

Reducing vulnerability
Vulnerability refers not only to the ability of the community to cope with hazards, but also its ability to recover from them. The UN’s Disaster Risk Reduction (DRR) strategy recognises that vulnerable groups such as the poor and socially excluded lack the capacity to cope with major hazards because of existing environmental, social, economic and political factors. For example, slum dwellers often build in unsafe areas prone to flooding or landslides. DRR aims to minimise vulnerabilities and disaster risks in a community by preventing or limiting (mitigating and preparing for) the negative impacts of hazards. The degree of vulnerability in a community varies according to several factors including socio-economic level (wealth), education and awareness of hazards, organisational structures such as emergency services and volunteer organisations, mass communication, and people’s age and health. Land use planning can also minimise the impact of hazards. For example, cyclone standards are mandatory for all new buildings in northern Australia.

Disaster management cycle

Overview Year 8 – Geomorphic or Biotic Hazards

Risks, vulnerability, management
About 500 million people live on or close to active volcanoes as they provide minerals, geothermal energy, fertile soils and tourism. These vulnerable people are at risk from exploding rocks and poisonous gasses. For example in 1902 on the island of Martinique the eruption of Mt Pelee destroyed the town of Saint Pierre.

The victims of the Indonesian tsunami in 2004 were unaware of the warning signs of an approaching tsunami (e.g. water line disappearing into the far ocean) which killed almost 310,000 people in 14 countries.

Obviously, little can be done to block these huge tsunami waves and volcanic explosions, however, governments are now more aware of the risk these hazards are to vulnerable people and have implemented plans to reduce their adverse impacts. As every $1 spent on preventative disaster results in an $8 reduction in damages from disasters the UN International Day for Disaster Reduction (IDD) promotes disaster prevention and preparedness. Aimed to warn people of impeding hazards, Earth Observation (EO) technologies include thousands of data buoys in oceans, land-based monitoring stations and 60 environmental satellites orbiting Earth.

Deaths from natural disasters by death toll

<table>
<thead>
<tr>
<th>Rank</th>
<th>Deaths</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>242,419–779,000</td>
<td>1976 Tangshan earthquake, China</td>
</tr>
<tr>
<td>4</td>
<td>316,000</td>
<td>2010 Haiti earthquake, Haiti</td>
</tr>
<tr>
<td>5</td>
<td>240,000</td>
<td>2004 Indian Ocean Tsunami, Indonesia</td>
</tr>
<tr>
<td>6</td>
<td>234,117</td>
<td>1920 Haiyan earthquake, China</td>
</tr>
<tr>
<td>7</td>
<td>142,000</td>
<td>1923 Great Kanto earthquake, Japan</td>
</tr>
<tr>
<td>10</td>
<td>123,000</td>
<td>1908 Messina earthquake/tsunami, Italy</td>
</tr>
</tbody>
</table>

Adapted from http://en.wikipedia.org/wiki/List_of_natural_disasters_by_deaths_toll
Satellite imagery – Before and after the 1980 Mt St Helens eruption (USA)

a) Before the 1980 Mt St Helens Eruption

![Before the 1980 Mt St Helens Eruption](http://www.businessinsider.com/satellite-images-natural-disasters-2011-3?op=1)

b) Four months after the 1980 Mt St Helens Eruption

![Four months after the 1980 Mt St Helens Eruption](http://www.businessinsider.com/satellite-images-natural-disasters-2011-3?op=1)

Satellite image of ash plume from volcanic explosion of Eyjafjallajökull in Iceland 2010

![Satellite image of ash plume from volcanic explosion of Eyjafjallajökull in Iceland 2010](http://tucsoncitizen.com/wryheat/2010/04/16/geologic-setting-of-icelandic-volcanoes/)

Map locating the 2010 Haiti earthquake:

![Map locating the 2010 Haiti earthquake](http://news.bbc.co.uk/2/hi/8466385.stm)

Map tsunami wave heights and times it reaches places 2011

![Map tsunami wave heights and times it reaches places 2011](http://serc.carleton.edu/images/NAGTWorkshops/visualization/collections/2011_japan_earthquake_tsunami.jpg)
Haiti’s humanitarian response

Causes of avalanches

An avalanche is a mass of snow falling or sliding down from large mountain slopes. It resembles a landslide. As it moves, the avalanche creates a shock wave facilitating the greatest destruction.

**Types of Avalanches**

- **Loose snow avalanches** called Sovy in Russian
  - They slide down the upper slope under the influence of the wind and other factors.

- **“Trough” type avalanches** move down narrow gullies, ravines and erosion furrows.

- **“Jumping” avalanches** These snow-flowing avalanches move along ledges.

**Interesting Facts**

- The first snow avalanche was mentioned in 1129 A.D. A historical document records the death of people from the avalanche of Bishop Hubert who was killed for Rome via the Great St. Bernard Pass in the Swiss Alps.

- On January 10, 1962, a huge avalanche, called by some the largest in the history of recorded observations, wiped out an entire city in Peru. The 1000-meter-long avalanche started a landslide at a speed of 150 kilometers per hour.

**Speed of Avalanches and Snow Density**

- Wet avalanches move at 10-20 meters per second and up to 40 meters per second, with snow density being 0.3-0.5 g/cm³.

**How a Loose Snow Avalanche Forms**

- Temperature inside the upper snow layers drops from -10° to -20°.
- The snow layer near the ground retains temperatures close to 0°C (about -2°C).
- A temperature difference forms between the upper and lower snow layers.
- Evaporation begins under the lower snow layers.
- The surface of the upper snow layers is disrupted.
- The upper snow layers lose their support and begin to slide.

Source: http://en.rian.ru/infographics/20111126/168963564.html

Source: http://cdn.theatlantic.com/static/mt/assets/science/haititech.jpg
During the first week of June 2009, Sustainable Resource Alberta burned nearly 8,000 hectares of forest in Western Alberta. The forest was destroyed to bring about greater diversity, stem the spread of mountain pine beetle and to create a fire barrier for any future wild fires. 

Image source: http://commons.wikimedia.org/wiki/File:Aerial_view_of_a_forest_fire_in_Saskatchewan-_b.jpg

## Fire hazards

<table>
<thead>
<tr>
<th>Rank</th>
<th>Death toll</th>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,200 – 2,500</td>
<td>Peshtigo, Wisconsin, USA</td>
<td>1871</td>
</tr>
<tr>
<td>2</td>
<td>1,200</td>
<td>Kursha-2, Soviet Union</td>
<td>1936</td>
</tr>
<tr>
<td>3</td>
<td>453</td>
<td>Cloquet Fire, Minnesota, USA</td>
<td>1918</td>
</tr>
<tr>
<td>4</td>
<td>418</td>
<td>Great Hinckley Fire, Minnesota, USA</td>
<td>1894</td>
</tr>
<tr>
<td>5</td>
<td>282</td>
<td>Thumb Fire, Michigan, USA</td>
<td>1881</td>
</tr>
<tr>
<td>6</td>
<td>273</td>
<td>Matheson Fire, Ontario, Canada</td>
<td>1916</td>
</tr>
<tr>
<td>7</td>
<td>240</td>
<td>Sumatra and Kalimantan, Indonesia</td>
<td>1997</td>
</tr>
<tr>
<td>8</td>
<td>230</td>
<td>Landes region, France</td>
<td>1949</td>
</tr>
<tr>
<td>9</td>
<td>213</td>
<td>Black Dragon, China</td>
<td>1987</td>
</tr>
<tr>
<td>10</td>
<td>173</td>
<td>Black Saturday, Australia</td>
<td>2009</td>
</tr>
</tbody>
</table>


## Geospatial Skills 5 and 6

The Geography Teachers’ Association of Victoria publications – Geospatial Skills Books 5 (Years 7 and 8) and 6 (Years 9 and 10) have been mapped to the Australian Curriculum: Geography. 

Click here for the specific links to each of the new Geography units for every activity in these books. Highly relevant to each unit in Year 7–10, the price of these immensely successful books has been heavily discounted to help teachers resource the new Geography curriculum. Download the flyer and order here.

Special Offer!

All books can be purchased from the GTAV for only $5.00 per book. To order go to – http://www.gtav.asn.au/
Max Fisher stated that ‘maps can be a remarkably powerful tool for understanding the world and how it works.’ His website contains interesting maps covering the Australian Curriculum: Geography.

Source: http://www.washingtonpost.com/blogs/worldviews/wp/2013/08/12/40-maps-that-explain-the-world/

Video – Inspecting maps that explain the world

1. Perspective map – spatial distribution of population

Year 8 Population

There are more people living inside this circle than outside of it.

More than half of humanity lives within the circle. The numbers check out.

When the world population was roughly 7,083,460,000 in 2011: China: 1,349,585,838 people; India: 1,220,800,359; Indonesia: 251,160,124; Bangladesh: 152,464,144; Vietnam: 92,477,857; Thailand: 67,448,120; Burma: 55,167,330; South Korea: 48,955,203; Nepal: 30,430,267; Malaysia: 29,628,392; North Korea: 21,675,648; Cambodia: 15,205,539; Laos: 6,695,166; Mongolia: 3,226,516; Bhutan: 725,296.

Source: http://www.washingtonpost.com/blogs/worldviews/files/2013/08/population-map.jpg

2. Best and worst places to be born

Year 10 Geographies of Human Wellbeing

What is the relationship between best and worst places to be born and GDP?
The firm looked at 80 countries, scoring them across 11 variables to determine - best opportunities for a healthy, safe and prosperous life in years ahead. Generally countries with highest GDP were preferred places to be born. However ‘money can’t buy you happiness, though it will get you 2/3 of the way.’ Top-ranked countries included Australia, Canada and Scandinavian countries as well as Asia’s Hong Kong, Singapore and Taiwan. China, India and Russia are still not great places to be born.

‘The best countries to be born were small, peaceful, homogenous, liberal democracies’ … and ‘countries with violence, poverty or political oppression ranked poorly.

3. Where to be born index 2013 table

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country</th>
<th>Score*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Switzerland</td>
<td>8.22</td>
</tr>
<tr>
<td>2</td>
<td>Australia</td>
<td>8.32</td>
</tr>
<tr>
<td>3</td>
<td>Norway</td>
<td>8.03</td>
</tr>
<tr>
<td>4</td>
<td>Sweden</td>
<td>8.02</td>
</tr>
<tr>
<td>5</td>
<td>Denmark</td>
<td>8.01</td>
</tr>
<tr>
<td>6</td>
<td>Singapore</td>
<td>8.00</td>
</tr>
<tr>
<td>7</td>
<td>New Zealand</td>
<td>7.90</td>
</tr>
<tr>
<td>8</td>
<td>Netherlands</td>
<td>7.94</td>
</tr>
<tr>
<td>9</td>
<td>Canada</td>
<td>7.81</td>
</tr>
<tr>
<td>10</td>
<td>Hong Kong</td>
<td>7.60</td>
</tr>
<tr>
<td>11</td>
<td>Finland</td>
<td>7.65</td>
</tr>
<tr>
<td>12</td>
<td>Ireland</td>
<td>7.47</td>
</tr>
<tr>
<td>13</td>
<td>Austria</td>
<td>7.42</td>
</tr>
<tr>
<td>14</td>
<td>Taiwan</td>
<td>7.40</td>
</tr>
<tr>
<td>15</td>
<td>Belgium</td>
<td>7.37</td>
</tr>
<tr>
<td>16</td>
<td>United States</td>
<td>7.36</td>
</tr>
<tr>
<td>17</td>
<td>Brazil</td>
<td>7.37</td>
</tr>
<tr>
<td>18</td>
<td>U.A.E.</td>
<td>7.35</td>
</tr>
<tr>
<td>19</td>
<td>South Korea</td>
<td>7.29</td>
</tr>
<tr>
<td>20</td>
<td>Israel</td>
<td>7.22</td>
</tr>
</tbody>
</table>

Source: Economic Intelligence Unit

*Score out of a maximum of 10

4. Best and worst places to be a mother

There were five measurements used – risk of maternal death, infant mortality rate, number of years child spends in school, GDP per capita and participation of women in government. Bluier countries are best for mothers, red countries the worst and purple somewhere in the middle.

Northern Europe is the best place for mothers and sub-Saharan Africa the worst.


So why are some countries so much better than others at protecting the lives of mothers? Why does the pattern look so clear? We asked experts to share their thoughts and insights:

The average mother in ten bottom-ranked countries lived in Africa. Statistics indicated:

- 1 in 30 women died from pregnancy related causes
- 1 in 7 children died before fifth birthday.
- 8 out of 10 women were likely to suffer loss of a child in their lifetime

India makes up 29% of all first-day deaths around the world. Approximately 47% of Indian girls marry by 18 years. However 75% of girls are in the lowest income group. An estimated 28% of infants in South Asia are born underweight, which is often a product of poor maternal health, early marriage and lack of skilled care at birth (e.g. doctors and nurses).

5. Mothers’ Index Rankings 2013

<table>
<thead>
<tr>
<th>Rank</th>
<th>Country</th>
<th>Rank</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Finland</td>
<td>167</td>
<td>Côte d'Ivoire</td>
</tr>
<tr>
<td>2</td>
<td>Sweden</td>
<td>168</td>
<td>Chad</td>
</tr>
<tr>
<td>3</td>
<td>Norway</td>
<td>169</td>
<td>Nigeria</td>
</tr>
<tr>
<td>4</td>
<td>Iceland</td>
<td>170</td>
<td>Gambia</td>
</tr>
<tr>
<td>5</td>
<td>Netherlands</td>
<td>171</td>
<td>Central African Republic</td>
</tr>
<tr>
<td>6</td>
<td>Denmark</td>
<td>172</td>
<td>Niger</td>
</tr>
<tr>
<td>7</td>
<td>Spain</td>
<td>173</td>
<td>Mali</td>
</tr>
<tr>
<td>8</td>
<td>Belgium</td>
<td>174</td>
<td>Sierra Leone</td>
</tr>
<tr>
<td>9</td>
<td>Germany</td>
<td>175</td>
<td>Somalia</td>
</tr>
<tr>
<td>10</td>
<td>Australia</td>
<td>176</td>
<td>D.R. Congo</td>
</tr>
</tbody>
</table>


AGTA Conference, January 2015

The AGTA 2015 conference will be held from Sunday 11– Friday 16 January 2015 in Rotorua, New Zealand.

Full details are available on the Group Events website including special group flights from Australia, earlybird registrations, conference accommodation as well as pre and post conference tours.

To benefit from discounted earlybird flights, pre and post conference tour options, and conference accommodation packages it is essential that participants complete and submit an expression of interest form and registration form before 20 June 2014.

Since the mid-nineteenth century cartoons have been used to denote satirical or humorous illustrations in newspapers and magazines. Cartoons address current geographical issues such as climate change, environmental degradation, human rights abuses and migration.

The power of the cartoon lies in its ability to present complex issues in a simplified form. However, a person’s interpretation of a cartoon is coloured by their cultural background and socio-political experience. Cartoons develop critical thinking, initiate classroom discussion and debate, and enable students to draw their own cartoons on a selected geographical issue.

Elements of cartoons

- **Exaggeration**
- **Symbolism**
- **Perspectives – point of view**
- **Humour and satire**
- **Stereotyping**
- **Caricatures and facial expressions**
- **Captions**
- **Tone and mood – sympathetic, pessimistic or emotive**
- **Visual metaphors – help comes to grips with complex ideas**

Figure in middle: http://www.convictcreations.com/research/images/aussie.jpg
Interpreting cartoons

Answer the following questions:

- What information does the poster shown above convey?
- What perspective is conveyed in the poster?
- How can active citizens make a difference?


Landforms, landscapes and water

Exercise – The Mighty Snowy

- What are the visual metaphors and symbols
- Does the cartoon have a caption
- Explain the point of view advertised by the cartoonist
- Discuss how landforms and landscapes have been changed by humans
- Research the Mighty Snowy and how sustainable management strategies could improve water resources

CARTOON ANALYSIS – TELLING A STORY

Cartoon template

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the cartoon title?</td>
<td></td>
</tr>
<tr>
<td>What is the name of cartoonist?</td>
<td></td>
</tr>
<tr>
<td>What is the date of the cartoon?</td>
<td></td>
</tr>
<tr>
<td>What was the source? Website, newspaper, journal</td>
<td></td>
</tr>
<tr>
<td>What is the event or issue that inspired the cartoon?</td>
<td></td>
</tr>
<tr>
<td>Who is portrayed in the cartoon?</td>
<td></td>
</tr>
<tr>
<td>How are the characters portrayed? Facial expressions, body language,</td>
<td></td>
</tr>
<tr>
<td>dress and what they hold</td>
<td></td>
</tr>
<tr>
<td>Are there symbols in the cartoon? What are they and what do they</td>
<td></td>
</tr>
<tr>
<td>represent?</td>
<td></td>
</tr>
<tr>
<td>Are there captions, speech bubbles, labelling and details to explain</td>
<td></td>
</tr>
<tr>
<td>the cartoon?</td>
<td></td>
</tr>
<tr>
<td>How did the words in the cartoon help you clarify the meaning of the</td>
<td></td>
</tr>
<tr>
<td>cartoon?</td>
<td></td>
</tr>
<tr>
<td>What is the cartoonist’s opinion about the topic portrayed in the</td>
<td></td>
</tr>
<tr>
<td>cartoon?</td>
<td></td>
</tr>
<tr>
<td>What was the desired effect of the cartoon?</td>
<td></td>
</tr>
<tr>
<td>• influence others way of thought</td>
<td></td>
</tr>
<tr>
<td>• project “cartoonists” opinion or bias</td>
<td></td>
</tr>
<tr>
<td>• influence or lead public opinion</td>
<td></td>
</tr>
<tr>
<td>• highlight or simplify the significance of an event</td>
<td></td>
</tr>
<tr>
<td>Do you agree or disagree with the cartoonist’s opinion? Why?</td>
<td></td>
</tr>
<tr>
<td>Write one sentence describing your thoughts on the cartoon</td>
<td></td>
</tr>
<tr>
<td>What special interest groups would agree or disagree with the</td>
<td></td>
</tr>
<tr>
<td>cartoon’s message?</td>
<td></td>
</tr>
<tr>
<td>Why?</td>
<td></td>
</tr>
</tbody>
</table>

ICT

Cartoon Stock – http://www.cartoonstock.com
Cartoon Web – http://cartoonweb.com
Daryl Cagle’s Professional Cartoonists index – http://cagle.slate.msn.com
PoliticalCartoon.com – http://www.politicalcartoons.com
The Guardian newspaper – http://www.guardian.co.uk/cartoons
World’s newspapers accessed via: http://www.world-newspapers.com

"Autumn melancholy. — Leaf-fall", a political cartoon by Theodorescu-Sion published in Furnica, the Romanian satirical magazine on 16 October 1908. Source: http://commons.wikimedia.org/wiki/File:Ion_Theodorescu-Sion_-_Melancolie_de_toamn%C4%83_%E2%80%94_C%C4%83derea_frunzelor_Furnica__16_oct_1908.JPG
Remote sensing images of Earth are obtained from Landsat satellites which is a joint venture between NASA and US Geological Survey. Landsat satellites which make loops around Earth measure urban growth, forest loss, desertification expansion and disaster destruction.

National Geographic stated that ‘remote sensing consists of using aerial photography and other methods to view what cannot be seen with the unaided eye’.

1. Satellite eye on Earth 2013

Wild fires of Canada and Indonesia, sand storms and steam spewing volcanoes were among the images captured by European Space Agency and NASA satellites in May.

Source: http://www.theguardian.com/environment/gallery/2013/jul/16/satellite-eye-earth-space-pictures#/?picture=412930398&index=0

a. Saharan dust storm

Year 8 Landforms and Landscapes; Year 10 Land

Source: http://www.theguardian.com/environment/gallery/2013/jul/16/satellite-eye-earth-space-pictures#/?picture=412930299&index=3

‘A strong Saharan dust storm covered the Mediterranean Sea and much of Europe in late May, bringing an extraordinary end to a very dusty month. Dust storms are common in this region, and the fine particles move as if on a river of air across vast expanses, coming to rest in regions remote from their Saharan origin. African dust, originating from fine particles in arid topsoil, easily lifts in strong winds, and may rise more than 10,000 feet high. Dust clouds can cross the Atlantic, and may reach the Caribbean and the Americas in five to seven days.’

b. Africa’s Okavango River empties into the inland Okavango Delta in northern Botswana

Year 8 Landforms and Landscapes and Year 10 Inland Water

The Okavango River originates in Angola, forms part of the Angola-Namibia border and then ends in northern Botswana. Here, it has formed a depression in the semi-arid Kalahari basin. Appearing purple at the centre of the image is Chief’s Island. In the lower-right portion of the image we can see a large cluster of radar reflections from the town of Maun. At the top of the image, a triangle with similar colouring to the delta can be seen. This is a swamp area and national park located mostly in Namibia.

2. New Landsat data just a few clicks away

September 2013 ‘thousands of never-before-seen data products from the US Landsat satellites acquired over 30 years have been released for online access.’
3. Google Earth photos – before and after satellite images

Source: http://mashable.com/2013/09/03/google-earth-before-after/

a. Dubai, UAE
Year 8 Urban

The growth of Emirates boomtown Dubai isn’t just visible in its skyscrapers -- it’s apparent through its entire coastline. Though most famous for its world map of manmade islands and two palm tree resorts, Google Earth historic images from just 10 years ago show the city’s coast has utterly transformed.

Source: http://mashable.com/2013/09/03/google-earth-before-after/#gallery/shocking-google-earth-before-and-after-images/

b. Seaside Heights, New Jersey, USA
Year 8 Hydrologic hazards

Seaside Heights, N.J.’s boardwalk amusement park was levelled during October 2012’s Hurricane Sandy. Missing from the after photo are the Ferris wheel, roller coaster and several buildings.

Source: http://mashable.com/2013/09/03/google-earth-before-after/#gallery/shocking-google-earth-before-and-after-images/5226552315d5cd32b3000511

c. Moore, Oklahoma (USA)
Year 8 Hydrologic hazards

These before-and-after shots of Moore, Oklahoma are somewhat apocalyptic, showing blocks and blocks of destroyed homes. The damage from the May 20 tornado is yet to be repaired.

Source: http://mashable.com/2013/09/03/google-earth-before-after/#gallery/shocking-google-earth-before-and-after-images/5226552315d5cd32b3000511


Year 8 Urban

Urban Footprint

Legend

Urban
Suburban
Rural
Urbanized open land

This map shows the areas which were urbanized, as of 2000.

5. Change Matters – Volcanic eruption of Mt St Helena

Year 8 Landforms and Landscapes – geomorphic hazards

a. Satellite images of Mt St Helena (USA) over time

Source: http://changematters.esri.com/compare
b. How to interpret changes in a satellite image

ICT


Global Positioning System (GPS)


ABS resources for teaching about population

The Australian Bureau of Statistics Education Unit has launched QuickGeog activities which may be accessed online or downloaded and edited to meet your needs. Each one is designed to be completed in less than a period. They contain a graphic or table of data taken from ABS publications and a series of questions or activities. The first release of activities focus on population.

If you haven’t seen it already, take a look at ‘Spotlight’ from the ABS, where students may investigate how they fit within the Australian population. This is a very engaging way to begin a study of population.

Are you looking for historical data on the growth of population in Australia or migration patterns over time? Historical datasets have been simplified and uploaded to the Education Services pages on the website. They contain some interactive visualisations to engage students and encourage them to look at the stories contained within the data.

The ABS website also has a new set of State and Territory Indicators (Cat.no. 1367.0) which provide an overview of population, economy and environment for each of Australia’s states and territories.

Spotlight

On the 3rd of August, 2011, Australians took part in a Census. In fact, it marked 100 years since the first national Census in Australia in 1911! But what did the Census really tell us about Australia? How have we changed and how can all that information help plan for a brighter future?

Shine some light and see what kind of a story Census data can tell you about you.
Announcing the 2013 Global Education Competition

The Global Education Project NSW is running an exciting competition for students in Stages 3, 4 and 5.

NB: Full details for this competition will be available on the Global Education section at: www.ptc.nsw.edu.au from the beginning of Term 3.

Make a 2-minute phone film

Task: Create a phone film that explores a Global Education issue:
- interdependence and globalisation
- identity and cultural diversity
- social justice and human rights
- peace building and conflict resolution
- sustainable futures.

Prizes:
The team producing the winning entry will receive:
(a) $500 and Global Education resources to the value of $500 for their school
(b) gift voucher to the value of $500 for the members of the team to share.

Stage 5, NSWBOS Board Endorsed Course: Active Global Citizenship

About the Course: Active Global Citizenship is a 100-hour course of study developed by the Global Education Project NSW (GEPNSW) for students undertaking the Stage 5 credential in NSW schools. This course has been approved by the NSW Board of Studies as a Stage 5 Board Endorsed Course.

The course relates to existing Board Developed Courses by drawing on skills and knowledge acquired from existing courses, and enhancing and augmenting these as needed, with the aim of developing globally competent students who have the ability to undertake collaborative community-based projects. This course provides a meaningful overarching conceptual framework of knowledge, understanding, skills, processes, values and attitudes, to explicitly address integrated experiential learning across KLAs in Stage 5.

Access a copy of the course and information to support its implementation go to:
www.ptc.nsw.edu.au, click on Global Education

The Global Education Project is a national initiative funded by the Australian Government’s overseas aid program AusAID to promote and implement the delivery of global education across the curriculum.

We can support you, not only as practitioners, but also as agents of change in how to:
- implement the Board-endorsed Stage 5 course, Active Global Citizenship
- develop subject-appropriate Global Education teaching and learning resources in all primary and secondary KLAs

We also offer:

Professional Learning
- in-school professional learning for faculties or larger groups
- video-conferencing and face-to-face professional learning events throughout the year

Resources
- an extensive range of print and video resources for primary and secondary. Order from – www.ptc.nsw.edu.au, click on Global Education
Top Apps for Geography

Source: https://bitly.com/bundles/meesterkurt/7

- **Al Gore- Our Choice: A Plan to Solve the Climate Crises** – https://itunes.apple.com/be/app/our-choice/id432753658?mt=8
- **City on Map Quiz** – https://itunes.apple.com/be/app/stad-op-de-kaart-quiz-voor-ipad/id394882056?mt=8

**ICT**

- **Maki- icon set for web cartography** – http://www.mapbox.com/maki/
- **Powtoon allows you to create animated presentations and cartoon style videos by dragging and dropping** – http://www.powtoon.com/

**Pedagogy wheel and ICT**

The Pedagogy Wheel by Allan Carrington is licensed under a Creative Commons Attribution 3.0 Unported License. Based on a work at http://tinyurl.com/bloomsblog

**Creating a paperless classroom with your ipad**

Source: http://www.teachthought.com/technology/how-to-create-a-paperless-classroom-with-your-ipad/

---

**SAMR – Substitution’** In the substitution zone, teachers or students are using technology tools to replace other tools, for instance, using Google Docs to replace Microsoft Word. The task (writing) is the same but the tools are different.”

USING ICT IN GEOGRAPHY

How it Works
Distribute, Submit, Collect, Grade, and Return

1. Distribute Assignment
Teacher places her lesson plan assignment in her shared Tech Assignment folder. She has shared this folder with students names she specified.

Students login to Google Drive on their iPad, tap "Shared with me" and then choose the assignment they wish to view.

2. Students Submit Assignments
Apps such as iWork allow students to open Google Drive and upload their assignment.

Students can also go directly to the Google Drive App to create a new document, new spreadsheet, new folder, and upload photos or videos.

3. Teacher Creates a Class Folder with Subfolders (4th Grade, 5th Grade...)
Teacher then moves all shared student folders to the appropriate class subfolder.

In this example: Teacher has moved all the shared folders by 5th graders into her 5th Grade Tech subfolder.

4. Teacher Creates a Shared Folder to Share Materials with Students

In this example: Teacher has shared the Tech Assignments folder with her students. Folder permissions are set to allow students to view but not edit the documents.
3. **Teacher Collects Assignments**

Teacher logs into her Google Drive Acct. and views collection of students’ submitted assignments.

![Image](http://upload.wikimedia.org/wikipedia/commons/0/02/US_Navy_110419-N-8040H-150_Information_Systems_Technician_2nd_Class_Michael_Tolbert%2C_right%2C_and_Information_Systems_Technician_2nd_Class_An-Marie_L.jpg)

4. **Grading Assignments**

Teachers can add grades to document header. Teachers can also insert comments by selecting desired text and using `Insert > Comments` in the menu bar.

![Image](http://www.schooleguide.net/)

5. **Returning Assignments**

Teacher returns assignment by renaming student’s graded assignment by adding the word “Graded” in front of the document’s title. Teacher may make and save a copy for herself.

![Image](http://www.schooleguide.net/)

**Informational Resources:**

- Kathy Schrock  
  [http://www.schooleguide.net/](http://www.schooleguide.net/)
- Sam Glikman  
  [Pad in Education for Dummies](http://www.schooleguide.net/)
- Greg Kuhlman  
  [http://rubwevetab.blogspot.com/](http://rubwevetab.blogspot.com/)
- Richard Wells  
  [http://paddyschools.org](http://paddyschools.org)
- Monica Burren  
  [http://richard.burren.com](http://richard.burren.com)
- Richard Byrne  
  [http://richard.burren.com](http://richard.burren.com)
- Beth Holland  
  [http://rubwevetab.blogspot.com](http://rubwevetab.blogspot.com)
- Med Kharbach  
  [http://www.educatechaughton.com](http://www.educatechaughton.com)
- Elementary Tech Teachers  
  [http://elementarytechteachers.ning.com](http://elementarytechteachers.ning.com)

© oaksdome.com 2013 - K-5 Computer Lab

---

**The Southern Colonies**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas ante massa, faucibus eu sodales ut, rhoncus volutpat velit. Duis nisl arcu, malesuada ut, volutpat est.

---
FREE PROFESSIONAL DEVELOPMENT SEMINARS
Primary & Secondary Teachers
Register your interest NOW!!!

Learn more on how to adapt these exciting resources to:
- Geography (Years 4-10)
- Civics and Citizenship
- Humanities
- HSIE
- Global Citizenship

FREE P.D. Seminar locations include:
- SYDNEY
- NEWCASTLE
- HUNTER VALLEY
- BLUE MOUNTAINS
- CANBERRA
- WAGGA WAGGA

Global Kidz Goals
“Make a World of Difference: A Guide to the Global Citizen”

NOW AVAILABLE FOR BOTH PRIMARY and SECONDARY

Mapped to new Australia Curriculum, covering Cross Curriculum Priorities (Asia and Australia’s engagement with Asia) and General Capabilities (Literacy, Numeracy, ICT, Critical and Creative Thinking, Ethical Behaviour, Personal and Social Competence, Intercultural Understanding).

LESSON PLANS and TEACHERS PROGRAMS also available.
REGISTER YOUR INTEREST TO ATTEND…

Return e-mail to globalkidzgoals@bigpond.com or Mark Eldridge on 0414 866 662

…or PURCHASE RESOURCES for just $19.95…
www.globalkidzgoals.com.au
Australian Geography Teachers' Association

www.agta.asn.au

GEOGRAPHY TEACHERS
PROFESSIONAL DEVELOPMENT CONFERENCE
To support the Australian curriculum: Geography
Rotorua, New Zealand: 11 - 16 January 2015
WITH PRE AND POST CONFERENCE ADD-ON TOURS AVAILABLE

Why we want you to register as an ‘early bird’ now...

The AGTA Committee is seeking an early indication of interest to help establish the break-even cost of this important geographer’s conference.

We want to know your interest in taking part in the pre and post conference tours. Anticipating good numbers, we are holding many hotel rooms around New Zealand. With your early indication of interest we will have a better idea of how many will actually be required.

Save up to $1,500 - Fly Air New Zealand - the further you fly the more you save!

Easy time line for payments:

1. Expression of Interest  NOW
2. Early bird registration $990 (see over page)  28 February 2014
3. Airfare deposit $200 (non-refundable)  20 June 2014
4. Pre and Post Tours deposit $200 (non-refundable)  20 June 2014
5. Final payment air, conference and land package  22 September 2014

The sponsoring airline:

AIR NEW ZEALAND

Flying with Air New Zealand you get ‘The Works”

Air New Zealand is a full service airline and includes food, beverages and full screen videos in the back of the seats in front of you. They are frequent winners of Airline industry Awards and their service is renowned.

Seats will be pre-booked to gain the best pricing based on L Class economy seating.

In the case of flights being with Virgin Airlines “The Works” service would be substituted for their equivalent in-flight services.

Conference transport package included in your registration:

The Conference Coach / Airport transfer “Package” covers all transport for delegates, partners and families from Auckland to Rotorua and transfers to all field day venues and attractions.

See the three suggested hotels of a high standard at varying prices. Two will have transfers to and from the conference hotel to coincide with the daily events. Partners and family members transport and touring during conference are also included in the partners price.

GEOGRAPHY TEACHERS
PROFESSIONAL DEVELOPMENT CONFERENCE
An invitation to secure your attendance now...

The Conference Coach / Airport transfer “Package” covers all transport for delegates, partners and families from Auckland to Rotorua and transfers to all field day venues and attractions.

See the three suggested hotels of a high standard at varying prices. Two will have transfers to and from the conference hotel to coincide with the daily events. Partners and family members transport and touring during conference are also included in the partners price.

Coach transfers will be provided by Oceania Coachlines, well known for their high quality coaches and commentary coach captains. (coach use for pre and post tours are not included in the conference costs but are included in the pre and post conference tours to provide one-price extended touring)

Conference accommodation:

You have a choice of three excellent hotels:

1. Distinction Hotel Rotorua 4 Star - the host conference hotel and conference head quarters. The conference meetings and functions will all be held in the excellent facilities available in this hotel. Many of the evening functions are held in this hotel as are the 16 trade sponsors stands and the ‘Happy Hour’ on the last night.

2. Copthorne Hotel Rotorua 4 Star - 300 metres away from the Conference Hotel.

3. Star Sudima Hotel Rotorua - approx. 1km from the conference hotel and closer to central Rotorua.

Please note: It is important all air bookings be made through the registration office. All transport arrangements will be made in conjunction with the various flight reservations for your airport transfers and the journey from Auckland to Rotorua and return. These will be allocated on the listed flights.

Tax invoices and receipts will be available to all participants and the cost of the conference and accompanying study tours may be tax deductible.

‘Early bird’ expression of interest
Register now, pay later!

YOU COULD WIN A RETURN AIR TICKET* TO NEW ZEALAND!

*The Early Bird Prize draw will be drawn at AGTA conference HQ in SYDNEY by Conference Convenor, Nick Hutchinson Friday 28 February 2014.

There is no cash value and the ticket is only available for travel by the person who wins the prize and attends the conference. People eligible to enter this conference opportunity are anyone who wishes to attend and registers, i.e. Teacher, partner or family member. All should declare interest and will have paid their registration by 28 February 2014 to be in the draw.

YOU COULD WIN A RETURN AIR TICKET* TO NEW ZEALAND!
The Geography Teachers' Association of New South Wales (GTA) is a not-for-profit, incorporated body that represents the professional interests of Geography teachers in NSW and Geographical Education more generally. The objectives of the Association are to promote the study and teaching of geography in schools by:

- providing professional learning opportunities for teachers of Geography;
- advocating the interests of Geography teachers on matters in the State and National interest;
- providing forums where teachers of Geography and the wider community can exchange views;
- supporting Geographical Education through the development and dissemination of geographical resources; and
- promoting geographical research and fieldwork.

The GTA seeks to address its objectives via a yearly program of activities and events, which include:

- online publication of the quarterly Geography Bulletin, a quality, peer-reviewed journal designed to serve the contemporary interests of Geography teachers and students.
- delivering Teacher Professional Learning Workshops and in metropolitan and regional locations, focussing on current issues, including in Global Education, the use of technology in the classroom, research and fieldwork skills.
- conducting an Annual Conference with keynote addresses from leading geographers on contemporary and emerging geographical issues as well as more practical sessions by geographical practitioners.
- hosting School Certificate and Higher School Certificate Reviews for teachers of Geography. These reviews are held in a number of regional areas across the state.

For further information about GTA NSW activities and events go to: www.gtansw.org.au

**MEMBERSHIP RENEWAL/APPLICATION FORM 2014**

**ABN 59 246 850 128** – This form will become a tax invoice when completed, GST included.

Please select **ONE** of the following membership options and complete the details

- □ Personal membership $90.00
  - Title – please tick: □ Dr □ Mr □ Mrs □ Ms □ Miss □ Other: ________________
  - Surname: ____________________________________________________________
  - Given Name(s): ______________________________________________________
  - Home address: ______________________________________________________
  - Postcode: __________
  - Phone: _____________________ (Mob) _____________________ (Home) _____________________ (Work)
  - Fax: ________________________ Email: ________________________________

- □ Corporate membership $180.00
  - Title – please tick: □ Head of HSIE □ Head Teacher of Social Science □ Head Teacher of Geography □ Co-ordinator of Geography □ Senior Geography Teacher □ Librarian
  - School: ____________________________________________________________
  - School address: _____________________________________________________
  - School phone: ______________________________________________________
  - School fax: ________________________________________________________
  - Postcode: __________

- □ Concessional membership $40.00 □ Retiree □ Part-time teacher □ Student (verification required)
  - Title – please tick: □ Dr □ Mr □ Mrs □ Ms □ Miss □ Other: ________________
  - Surname: ____________________________________________________________
  - Given Name(s): ______________________________________________________
  - Home address: ______________________________________________________
  - Postcode: __________
  - Phone: _____________________ (Mob) _____________________ (Home) _____________________ (Work)
  - Fax: ________________________ Email: ________________________________
  - School: ____________________________________________________________

**PAYMENT:**

Membership is for twelve months commencing in January. If payment is made later in the year all back copies of Geography Bulletin will be forwarded. A membership reminder will be sent in December.

Please make cheques payable to: Geography Teachers’ Association of NSW Inc

OR

Charge $____________ to my credit card: □ Mastercard □ Visa

Card Number: __________ / __________ / __________ / __________ Expiry: __________ / __________

Name on card: ____________________________________________ Signature: _______________________________

Post this form and your payment to: GTA NSW, PO Box 577 Leichhardt, NSW 2040
Editorial policy attempts to:

- promote material which will assist the study and teaching of geography
- encourage teachers to share their ideas on teaching geography
- provide a means by which teachers can publish articles
- inform readers of developments in geographical education

Articles are sought reflecting research and innovations in teaching practices in schools. From time to time issues of the Bulletin address specific themes.

Refereeing

All suitable manuscripts submitted to the Geography Bulletin are subject to the process of review. The authors and contributors alone are responsible for the opinions expressed in their articles and while reasonable checks are made to ensure the accuracy of all statements, neither the editor nor the Geography Teachers’ Association of New South Wales Inc accepts responsibility for statements or opinions expressed herein.

Books for review should be sent to:
Mr John Lewis, Review Editor,
The GTA NSW Office
PO Box 577
Leichhardt NSW 2040

Deadlines for articles and advertising

<table>
<thead>
<tr>
<th>Issue 1</th>
<th>Issue 2</th>
<th>Issue 3</th>
<th>Issue 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 December</td>
<td>1 March</td>
<td>1 May</td>
<td>1 August</td>
</tr>
</tbody>
</table>

Notice to Advertisers

‘Geography Bulletin’ welcomes advertisements concerning publications, resources, workshops, etc. relevant to geography education.

FULL PAGE (26 x 18cm) – $368.50
Special issues $649.00

HALF PAGE (18 x 13cm or 26 x 8.5cm) – $214.50
Special Issues $382.80

QUARTER PAGE (13 x 8.5cm or 18 x 6.5cm) – $132.00
Special issues $242.00

INSERTS (A4 supplied) – $374.00
All prices include GST

Advertising bookings should be directed to:
GTA NSW Office
Telephone: (02) 9716 0378
Fax: (02) 9564 2342
Email: gta.admin@ptc.nsw.edu.au

1. **Objective:** The Geography Bulletin is the quarterly journal of the New South Wales Geography Teachers’ Association, Inc. The role of the Geography Bulletin is to disseminate up-to-date geographical information and to widen access to new geographic teaching ideas and methods. Articles of interest to teachers and students of geography in both secondary and tertiary institutions are invited, and contributions of factually correct, informed analyses, and case studies suitable for use in secondary schools are particularly welcomed.

2. **Content:** Articles, not normally exceeding 5000 words (no minimum specification), should be submitted to the Editor at the following address:
PO Box 577, Leichhardt, NSW, 2040

Articles are welcomed from tertiary and secondary teachers, students, business and government representatives. Articles may also be solicited from time to time. Articles submitted will be evaluated according to their ability to meet the objectives outlined above.

3. **Format:** Original in Word format on disk (or forwarded electronically via email attachment) plus one hard copy should be submitted. Tables should be on separate pages, one per page, and figures should be clearly drawn, one per page, in black on opaque paper suitable for reproduction. Photographs should be in high resolution digital format. An indication should be given in the text of approximate location of tables, figures and photographs. Every illustration needs a caption. Photographs, tables and illustrations sourced from the internet must acknowledge the source and have a URL link to the original context.

4. **Title:** The title should be short, yet clear and descriptive. The author’s name should appear in full, together with a full title of position held and location of employment.

5. **Covering Letter:** A covering letter, with return forwarding address should accompany all submitted articles. If the manuscript has been submitted to another journal, this should be stated clearly.

6. **Photo of Contributor:** Contributors should enclose a passport-type photograph and a brief biographical statement.

7. **References:** References should follow the conventional author-date format:
Harrison, T. L. (1973a) *Railway to Jugiong.* Adelaide: The Rosebud Press. *(2nd Ed.)*

8. **Italics** should be indicated by underlining.

9. **Spelling** should follow the Macquarie Dictionary, and Australian place names should follow the Geographical Place Names Board for the appropriate state.