Investigate

Lesson 7
Teacher notes
The statistics

Years **7** to **8**

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INQuIRY

WithOnePlanet
Climate change education
An xpand Foundation initiative

The statistics

Lesson 6: Teacher notes

This document provides the teacher with the details of the lesson.

At a glance

This lesson encourages students to look at global statistics relating to income, poverty, education and the environment. Students are challenged to look at the way that they view the world to see if they have any misconceptions about Asia and the West that they may be able to change.

For an assessment guide and key lesson objectives, refer to the Unit outline.

INQuIRY focus: Investigate

The *Investigate* phase (lessons 3-7) is designed to provide students with hands-on experiences of culture and how we use plants in different cultures. Students explore ideas, collect evidence, discuss their observations and keep records. The *Investigate* phase ensures all students have a shared experience that can be discussed and explained.

In the *Investigate* phase students develop a literacy product to represent their changing understanding. They discuss and identify patterns and relationships within their observations. Students consider the current views and deepen their own understanding.

Teacher background information

The Gapminder website, <http://www.gapminder.org>, is an excellent resource for teachers, as it enables students to quickly and easily compare a number of different data from countries around the world. There are also related videos on the website, aimed at challenging people's world view and to be more discerning about what they read and hear.

	Income per person in AUD	Life expectancy	Child mortality (0-5) per 1000 born	Children per woman	% total literacy (15 & over)	Cumulative tons CO2 emissions (2011)	Card No. (for Activity 3)
Australia	42,822	82	4.9	1.9	96	14,898,947,066	6
China	11,523	75	14	1.7	95	109,545,197,665	2
India	5,198	66	56	2.5	63	31,926,495,333	4
New Zealand	32,628	81	5.7	2.1	99	1,526,381,110	8
Malaysia	22,791	75	8.5	2	92	2,828,004,667	5
Indonesia	9,224	71	31	2.4	92	7,256,036,333	1
Timor-Leste	2,076	68	56	6	51	1,037,667	7
Papua New Guinea	2,426	62	63	3.8	61	93,236,000	3

The above table shows the information that is used in this lesson. All of this information (apart from the Australia and New Zealand literacy rates) can be found at <http://www.gapminder.org>.

Equipment

> Gapminder website: <http://www.gapminder.org/ignorance/>
> Video: How not to be ignorant about the world. <https://embed-ssl.ted.com/talks/hans_and_ola_rosling_how_not_to_be_ignorant_about_the_world>
> Cards: Where am I from?

Lesson steps

Activity 1

1. Have a discussion with students about our world view, and how it can be influenced by a number of things.
2. Look at the Gapminder foundation, <http://www.gapminder.org/ignorance/> and their goals on overcoming ignorance in the world. You may like to have students read the website, or watch the video which runs for 20 minutes.
3. Discuss the questions in the *Student worksheet – Activity 1* to find out if the students had any misconceptions and/or were surprised by any of the facts.

Activity 2

1. This is a preparation activity for Activity 3. Have students go to the Gapminder website, click on the Gapminder world tab, and familiarise themselves with how the Gapminder website works through the How to use video. (The How to use button is at the top centre of the screen when you are in the Gapminder world section of the website.)

Activity 3

1. Hand out the *Where am I from?* cards to individual students or groups of students. There are 8 different cards, each representing a different country. All the cards, as well as the answer key, are located in the teacher resource area, of this teacher guide.
2. Students are to guess which country their card represents (Australia, China, India, New Zealand, Malaysia, Indonesia, Timor-Leste or Papua New Guinea). Once they have guessed their card, they check the data using the Gapminder website.
3. Students can complete one card or more than one card.
4. Have a group discussion, looking at the questions in Activity 3 of the student worksheet.

ACTIVITY 4

1. Students look at some facts and statistics about Timor-Leste from the WithOneSeed website, <http://www.withoneseed.org.au/timor-leste>.
2. Students to answer questions 1–4 in Activity 3.

Sources:

Gapminder Foundation, *The ignorance project,* [Website], viewed 24 March 2016, <http://www.Gapminder.org/ignorance/>

Gapminder Foundation, *How not to be ignorant about the world*, [Online video] XXX, viewed 24 March 2016 <https://embed-ssl.ted.com/talks/hans_and_ola_rosling_how_not_to_be_ignorant_about_the_world>

WithOneSeed, 2010, viewed 24 March 2017, <http://withoneseed.org.au/>

The statistics

Lesson 6: Teacher resources

The statistics Where am I from? – CARD NO.1

1

1. I am 15 years old.
2. My family's average yearly income is $9224 per year.
3. My life expectancy is 71 years.
4. 3.1% of children in my country die before the age of five.
5. I have three brothers and sisters, which is slightly above the average for my country.
6. I can read and write, and so can 92% of people (aged 15 and over) in my country.
7. In 2011, my country produced 7,256,036,333 tons of carbon dioxide emissions.

Where am I from? -

The statistics Where am I from? – CARD NO.2

2

1. I am 15 years old.
2. My family's average yearly income is $11,523 per year.
3. My life expectancy is 75 years.
4. 1.4% of children in my country die before the age of five.
5. I have two brothers and sisters, which is slightly above the average for my country.
6. I can read and write, and so can 95% of people (aged 15 and over) in my country.
7. In 2011, my country produced 109,545,197,665 tons of carbon dioxide emissions.

Where am I from? -

The statistics   Where am I from? – CARD NO.3

3

1. I am 15 years old.
2. My family's average yearly income is $2,426 per year.
3. My life expectancy is 62 years.
4. 6.3% of children in my country die before the age of five.
5. I have four brothers and sisters, which is slightly above the average for my country.
6. I can read and write, and so can 61% of people (aged 15 and over) in my country.
7. In 2011, my country produced 93,236,000 tons of carbon dioxide emissions.

Where am I from? -

The statistics   Where am I from? – CARD NO.4

4

1. I am 15 years old.
2. My family's average yearly income is $5198.
3. My life expectancy is 66 years.
4. 5.6% of children in my country die before the age of five.
5. I have two brothers and sisters, which is slightly below the average for my country.
6. I can read and write, and so can 63% of people (aged 15 and over) in my country.
7. In 2011, my country produced 31,926,495,333 tons of carbon dioxide emissions.

Where am I from? -

The statistics Where am I from? – CARD NO.5

5

1. I am 15 years old.
2. My family's average yearly income is 22,791.
3. My life expectancy is 75.
4. 0.85% of children in my country die before the age of five.
5. I have two brothers and sisters, which is the average for my country.
6. I can read and write, and so can 92% of people (aged 15 and over) in my country.
7. In 2011, my country produced 2,828,004,667 tons of carbon dioxide emissions

Where am I from? _____

The statistics Where am I from? – CARD NO.6

6

1. I am 15 years old.
2. My family's average yearly income is 42,822.
3. My life expectancy is 82 years.
4. 0.49% of children in my country die before the age of five.
5. I have two brothers and sisters, which is slightly above the average for my country.
6. I can read and write, and so can 96% of people (aged 15 and over) in my country.
7. In 2011, my country produced 14,898,947,066 tons of carbon dioxide emissions.

Where am I from? _____

Investigate Culture

Years 7 to 8

The statistics Where am I from? – CARD NO.7

7

1. I am 15 years old.
2. My family's average yearly income is $2076.
3. My life expectancy is 68 years.
4. 5.6% of children in my country die before the age of five.
5. I have six brothers and sisters, which is the average for my country.
6. I can read and write, and so can 51% of people (aged 15 and over) in my country.
7. In 2011, my country produced 1,037,667 tons of carbon dioxide emissions.

Where am I from?

The statistics Where am I from? – CARD NO.8

8

1. I am 15 years old.
2. My family's average yearly income is $32,628.
3. My life expectancy is 81.
4. 0.57% of children in my country die before the age of five.
5. I have two brothers and sisters, which is slightly below the average for my country.
6. I can read and write, and so can 99% of people (aged 15 and over) in my country.
7. In 2011, my country produced 1,526,381,110 tons of carbon dioxide emissions.

Where am I from? _____

Answer key for teachers

CARD 1 - Indonesia

CARD 2 - China

CARD 3 – Papua New Guinea

CARD 4 - India

CARD 5 - Malaysia

CARD 6 - Australia

CARD 7 – Timor-Leste

CARD 8 – New Zealand

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