Cal and Nic’s trip to Egypt.

For Year 8, Year 9 and 10 students.          Level 4, 5

<table>
<thead>
<tr>
<th>What to do. For students.</th>
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<tbody>
<tr>
<td>1. You can work with a friend as a team of two.</td>
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<tr>
<td>2. You may need a map or an atlas. However there are places on the internet which provide maps. Try GoogleEarth.</td>
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<tr>
<td>3. Do the tasks and enter your answers in your maths book.</td>
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<tr>
<td>4. When you have finished all 11 tasks check your answers with your Teacher.</td>
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<tr>
<td>5. Each task has some road clues which will give you some ideas and information about the problem.</td>
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<td>6. Each task has some maths clues which will give you mathematical ideas to solve the problem with.</td>
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<tr>
<td>7. Your task is to find the answer to the problems. Some are hard and some are easy! You may need to do research to find the answer.</td>
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<td>8. The codes are easy transformation codes. Just rearrange the letters!</td>
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<tr>
<td>9. When you finish and have checked your answers look where you are on the table. Are you brilliant?</td>
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<tr>
<td>10. There are four Maths Week Trips available this year. Some have very tricky trippy questions!</td>
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<td>11. Good luck!</td>
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</table>
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Task one. At the Great Pyramids.

Cal and Nic are on another O.E. trip. This time it is to Egypt. What a place to go to and what a trip! They start at the Great Pyramids.

Road clues.
The pyramids have been here for 4474 years. The highest is 146.638 metres high. All three Great Pyramids face exactly North. The pyramids are built on square bases.

Maths clues.
F H Y Z
or
7, 8, 26, 1

What is the name of the place where the Great Pyramids are?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task two. Big city near the Pyramids.

This city is huge.
Cal and Nic stayed here when they visited the Pyramids.

It is the seventh largest city in the world.
The largest city in Africa.
Four times the population of New Zealand in one city!
There are 2 000 000 cars on the streets of this city.
60% of the cars are over 10 years old.

What is the name of this big city?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task three.

Have you ever ridden on a camel?
It is high up and he has a hard back to sit on.
He grunts but is very friendly.
The camel decides where to go and once on him you have no choice but to go along with him. What is the name of our friendly camel?

It could be James.
It could be Mary.
It could be Nic.
It could be Cal.
But its not!

What is the name of our friendly camel?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task four. A river boat trip from Cairo.

Nic and Cal have joined a convoy of river boats and are travelling up a very major river.

The length of this river is 6695 kilometres. It is the longest river in the world! It flows through 9 different countries. Nearly all of the people of Egypt live close to this river.

What is the name of the river?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task five. Up the Nile.

Our travelers reach this spectacular place after three days on the boat on the River Nile. This city is described as the world’s greatest outdoor open air museum. It is the second most visited place in Egypt.

The columns were built between 1306 and 1290 BC. It is the largest temple complex built by man. It covers more than 100 hectares.

Which city are Nic and Cal in?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task six. In a market in Luxor.

The man is selling the oranges in a market in Luxor. He is selling them for a friend who has an orange grove. They are cheap. About 2 cents each! The oranges are delicious!

It is a number between 530 and 600. It is a palindrome number. It’s digits add to an even number. The number is divisible by 3.

How many oranges are in the tray here?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task seven. Further up the Nile.

Only 3 kilometres south of Karnak is this place. Over two million people visit each year. In 1997 there was a terrorist action here. Sixty tourists were killed and many injured.

It is the memorial temple built around 1392 BC for a Pharaoh named Hatshepsut. Spectacular! Throughout history this place was called Thebes. Thousands visit here each day. Security is very tight.

12, 21, 24, 15, 18
It is pronounced ˈlʌkʊr

What is this place called?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task eight. Carrots to the market in Karnak.

The man is taking his carrots to the market in Karnak. He is selling them only to the good cooks. His donkey also likes eating them.

It is a number in which 1, 2, 3, 6, 111, are the only numbers that will divide into it. Its digits add up to a number which is even. When its digits are multiplied together you will have a three digit number.

How many carrots are in the cart?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task nine. Climbing Mount Sinai.

Our team climbed this famous mountain and stayed a night on it. It was very very cold.

This mountain has a huge importance in the Bible. Near the summit of Mount Sinai these is a small cave where Moses waited to receive the Ten Commandments. The mountain is surrounded on all sides by higher mountains.

It’s over 2000 metres but less than 2500 metres high. It’s a multiple of 457. It takes about 4 hours to climb – if you are fit!

How tall is the mountain?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task ten. Diving at Dahab.

Our kiwis decided to join the other back-packers and go diving at this place after leaving the River Nile. It was a long bus journey across desert to the town of Dahab. It used to be a Bedouin village but now it is a treasured diving destination. Dahab offers travelers scuba diving, snorkeling, wind surfing and plenty of seafood eating places.

Road clues.

It is near the Red Sea but it is not the Red Sea! It is a Gulf! What Gulf is it? It was made famous in the movie “Lawrence of Arabia”

Maths clues.

1, 17, 1, 2, 1 or B, R, B, C, B

In which sea did Cal and Nic dive?

Write your answer into your maths book. We check your answer at the end of the trip!
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Task eleven. Back to Cairo.

Cal and Nic’s trip to Egypt started and finished here. The largest city in Africa and one of the most important cities in the world.

There are 2 million cars on the streets! 60% of the cars are over 10 years old.

The only number that is the perimeter and area of the same square.

An almost perfect number. This means the sum of its factors is almost the number itself.

How many people live here?
Give your answer to the nearest million.

Write your answer into your maths book. We check your answer at the end of the trip!
This is the finish! You have finished!

Congratulations!
How long did it take you?

<table>
<thead>
<tr>
<th>Corrrect</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 or 11</td>
<td>Excellent! Awesome!</td>
</tr>
<tr>
<td>9</td>
<td>Very good! Well done!</td>
</tr>
<tr>
<td>8</td>
<td>Pretty good! Amazing.</td>
</tr>
<tr>
<td>7</td>
<td>Good! Pleasing.</td>
</tr>
<tr>
<td>6</td>
<td>OK! Try it again!</td>
</tr>
<tr>
<td>5</td>
<td>Could be better! Try again!</td>
</tr>
<tr>
<td>&lt; 5</td>
<td>Don’t go travelling to Egypt!!</td>
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</tbody>
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