

STAGE THREE

PRE-ARRIVAL CLASSWORK

Curriculum Links: HT3-1 · HT3-2 · HT3-5 · GE3-1 · GE3-3 · GE4-3 · MA3-1 WM · MA3-5 NA · MA3-6 NA · MA3-9 NA

Activity One

Estimate

Estimate the answers to the following questions.
Check your answers when you arrive at the Sydney Tower Eye.

HINT:

You can find the answers displayed on the walls before you enter the 4D cinema.

Question

Estimate

Answer

How much did it cost to construct the Sydney Tower?

\$

\$

How many mega litres of water are there in Sydney Harbour?

litres

litres

When was Sydney founded as a city?

How long did it take to build Sydney Tower?

years

years

How much does the Sydney Tower weigh?

tonnes

tonnes

How long has Sydney Tower been open to the public?

years

years

How far can you see from Sydney Tower Eye Observation Deck?

km

km

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Activity Two

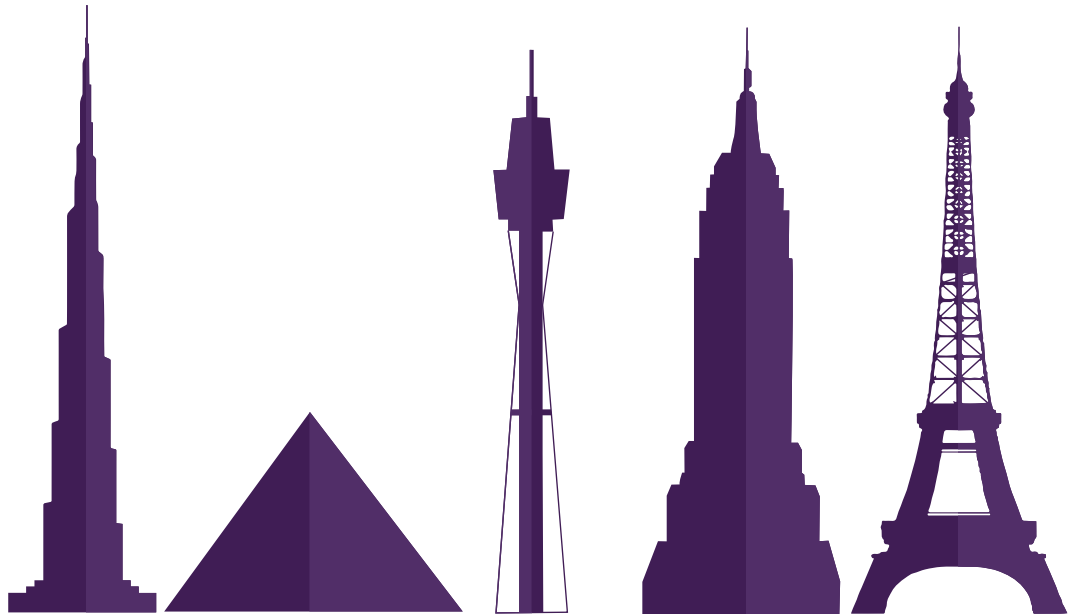
Tallest to Smallest

Label these towers with their names. Then, order them from tallest to smallest, 1 being the tallest, 5 being the shortest.

Then, add the height of each tower. Then answer the questions below!

HINT:

You will find the height of these towers listed on the wall before you enter the 4D cinema.



Name of Tower:

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Height of Tower:
(in metres)

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Order of Towers
tallest to smallest:
(Label 1 - 5)

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What is the difference in height between the tallest building and the shortest building?

.....

What is the total height of all of the buildings?

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Activity Three

Problem Solving

Answer the following problem solving questions.

SKYWALK on the Sydney Tower Eye is 268 metres high. SKYWALK is double the height of the Sydney Harbour Bridge. How tall is the Sydney Harbour Bridge?

.....
.....

There are 1,504 steps that go from Pitt Street Mall to the Observation Deck. If you can run up 100 stairs in 30 seconds, at what speed could you run to the top? **Speed = distance/time**

.....
.....

There are 1,504 steps that go from Pitt Street Mall to the Observation Deck. If the record for running up the stairs is 6.08 minutes, how many stairs did the record holder climb per second? **Distance = speed x time**

.....
.....

There is a 162,000 litre water tank at the top of the Sydney Tower which acts as a stabiliser for the tower. If 10% of the water was removed, how much water would be left?

.....
.....

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Activity Four

Time Line

Sydney has seen a lot of change since the Indigenous Australians inhabited the area that you can see from the Observation Deck. Put the list of 10 statements below into order from oldest to most recent by using the number next to each statement. We've started for you.

1. The 27th Olympic Games were held in Sydney in the year 2000.
.....
2. Sydney Tower was built in 1981.
.....
3. Construction of Sydney Town Hall Station commence in 1869.
.....
4. Indigenous Australians have lived in the Sydney region since as far back as 100,000BC.
.....
5. The Sydney Opera House became a World Heritage site in 2007.
.....
6. In 1867, an epidemic of measles struck Sydney.
.....
7. Captain Cook arrived in Botany Bay in 1770.
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8. Taronga Zoo opened in 1916.
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9. On the 4th of August 1906, Central Station was opened.
.....
10. In 1794, the first theatre was built in Sydney.
.....

