



TOWER OF TERROR

student activity

Name: _____

Teacher: _____

School: _____

Primary Science Essential Learnings

Years 4 and 5

E&C 5-2 Forces may act at a distance or may need to be in contact with an object to affect it.

Years 6 and 7

E&C 7-3 Energy can be transferred and transformed.

Standard Achieved

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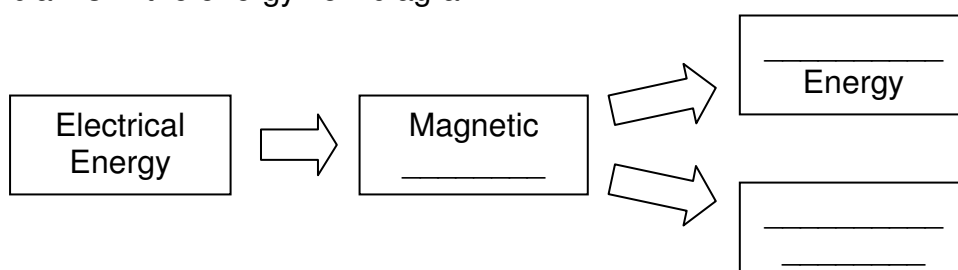
Questions

Find the crocodile near Central Park Station. This is a good point from which to observe the Tower of Terror takeoff.

The Tower of Terror is driven by magnets powered by electricity (called *electromagnets*) in the track. You can see the electrical cables under the track.

Watch the launch of The Tower of Terror. You will see that energy is not just converted into motion ("kinetic energy"), but also into another kind of energy that you can experience.

Fill in the blanks in the energy flow diagram:



Use the diagrams below to answer these questions:

How long is the vehicle?

_____ mm

How long is the run-up to the tower?

_____ m

What is the diameter of the tower?

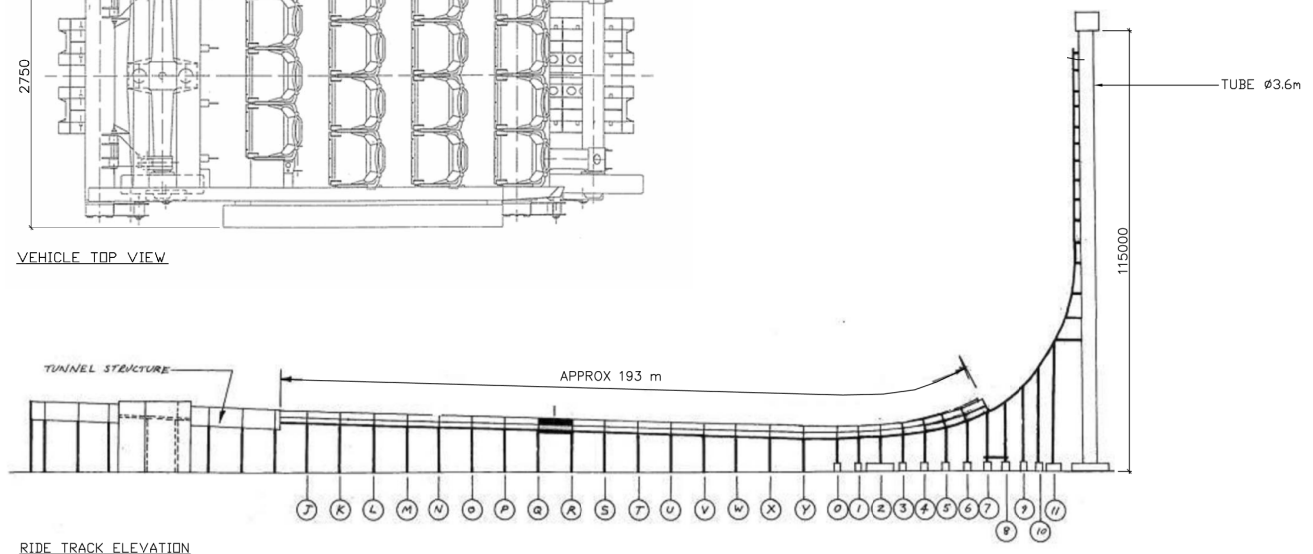
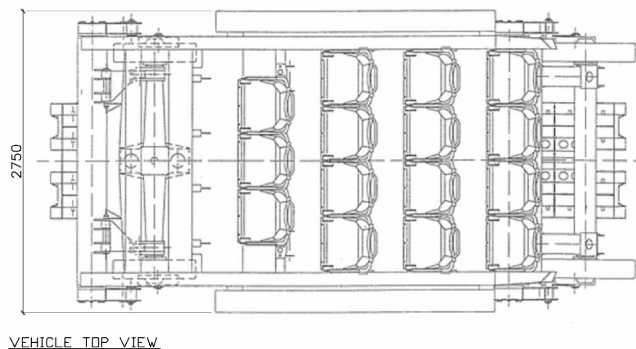
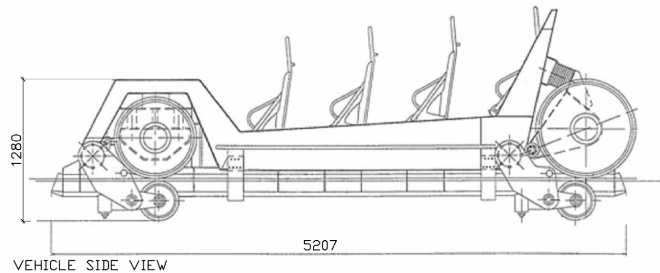
_____ m

How tall is the tower?

_____ mm

Convert the height of the tower to metres.

_____ m



Did you know...
The Tower of Terror is among the fastest, tallest rides in the world, reaching speeds of up to 160 km/h and pulling forces of up to 4.5 G's.

Extension

Draw energy flow diagrams like the one that you completed for The Tower of Terror for:

1. The bus driving you home from Dreamworld.
2. Your body as you run to the next ride.