

Water Slide Wonderland – a **Design It!** activity



The video to accompany this activity can be found at: www.juniorinventors.com.au/?p=1253

Junior Inventors Name: _____

Design it! Water Slide Wonderland! Design the greatest ever water slide.
Imagine you could create a new water slide that is not like any others with a twist!
How fast you need your slide going for the ride. Don't forget to think about the landing at the end.
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Draw it! Design and label your slide.

Name It! Think up 2 names for your slide.

1. _____

2. _____

Plan the size name and explain why you chose it.

Build It! What is your slide made of and why?

1. _____

2. _____

Vocabulary Builder

Gravity	Crash	Wave	Slip	Ho
Splash	Zoom	Raft	Massive	Turbo
Swift	Race	Rapid	Climb	Flow
Slither	Slippery	Ridion	Turbulence	Inertia

Junior Inventors Invention Activity Sheet © Skoolbo 2015

Lesson Sequence

Prior Knowledge: Complete a quick start writing task (5-10 mins)

When I reached the top of the water slide I....

Video: Tune in to water slide designs by showing the provided video on some of the world's largest and most thrilling rides!

Design it: Students plan and design their own waterslide by completing the **Design It!** activity sheet.

Share: In small groups students show and describe their waterslides.

Digging Deeper: Explore momentum and gravity by testing with the ball, slope and string activity from the website article.

TIPS TO SUPERCHARGE YOUR LESSON

Create a criteria: Students can then rank their slide designs based on the chosen criteria.

(e.g. speed, height, length, thrill, changes in direction)

Take action: Provide time for your students to experiment and explain their understandings by creating marbles runs and car ramps.



Important Terms and Definitions:

Gravity – a force that attracts any object towards the centre of the Earth. (A pull downwards)

Potential Energy – The energy stored in an object, and the potential for that energy to do work.

Momentum – the tendency of a moving object to keep moving after force has been applied.

Friction – the reaction that occurs when two surfaces rub together. Less friction occurs when smooth surfaces touch.