

Water Force Challenge!

Water chutes are fun - but what can you discover about their speed?

Student Introduction

- ▶ At Blackgang Chine you will see three water chutes.
- ▶ Two are uncovered and one is covered.
- ▶ Using science, design your own experiment to work out which is fastest and why!



The Challenge

Your mission is to design an experiment to find out if there is any difference in the speed between the chutes, and if there is, why?

- » There are many variables you could experiment with. Write down three variables that could be investigated:
 - 1.
 - 2.
 - 3.
- » Having decided which variable to investigate, you should now think about how. What needs to be controlled? Note ideas below:
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- » Explain how you will control these variables:

» What equipment will you need? List below:

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» Write down a method for your experiment:

» How will you record your results?

» How many times should you do each experiment to get an accurate result? And why?

Findings

Present your findings below, with explanation:

