

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!



Teaching resources by Education Destination Ltd.

Curriculum relevant materials supporting school trips to the Isle of Wight

Book today with Education Destination and get full access to this and hundreds more quality resources

www.edudest.uk

- » To make sure that this is a fair test, only one variable should change (be different). Can you identify one key variable just by looking at the chutes? Write it in the space below:
 - » What other variables might affect the speed down the chutes?
 -
 -
- » Today you will be looking at the effect of air resistance (whether the chute is covered or open). This means that you should try to keep all of the other variables the same.

- » What equipment do you think will you need?
List below:

-
-
-



- » Put this method in the correct order:

Teaching resources by Education Destination Ltd.

Curriculum relevant materials supporting school trips to the Isle of Wight
Book today with Education Destination and get full access to this and hundreds more quality resources

- ✓ Work out the average www.edudest.uk the three different times
and then divide your answer by three

- ✓ Record your results in the table

- ✓ Choose one of the uncovered chutes to watch and the covered chute

Chute	Time in seconds			
	1st run	2nd run	3rd run	Average
Covered				
Uncovered				

Findings

What did you find out? Explain below:

Teaching resources by Education Destination Ltd.

Curriculum relevant materials supporting school trips to the Isle of Wight

Book today with Education Destination and get full access to this and hundreds more quality resources

www.edudest.uk

