

PARENT NOTES

Science

Physics - Working Scientifically



At A Glance:

- ✓ Physics
- ✓ Lower and Upper Key Stage 2 (Y3-Y6)
- ✓ National Curriculum 2014
- ✓ Practises skills of experimentation and planning

About this activity

This activity is for students in lower and upper key stage 2 - it engages them with their visit to Blackgang Chine, most notably the Water Force attraction.

Students work scientifically in observing and collecting data. They will discover which of the water chutes is the fastest by devising and/or conducting experiments.

Students will use scientific terminology to describe their findings, and use standard measurement units to record their data.

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What's Involved?

Students will be able to conduct a simple experiment using the water chutes at Blackgang Chine.

They will take account of possible variables, plan their experiment, take accurate measurements and write up their findings.



www.edudest.uk

What is the task?

- ▶ This resource enables students to use the water chutes to conduct an experiment, finding out if there is a difference between the covered and uncovered chutes.

How does this link to my child's learning?

- ▶ This resource has been designed to engage with and practise core science skills at lower and upper key stage 2, for a range of abilities.

What will they learn?

- ▶ Students will learn the skills needed to identify key variables and undertake an experiment on site.
- ▶ They will practise planning an experiment and record their findings effectively.

How does this enrich study undertaken in school?

- ▶ This task is an opportunity for students to gain real life experience in using the scientific skills they have begun to learn in the classroom, thereby encouraging an awareness of subject and skill relevance.

"The true method of knowledge is experiment."

- William Blake

What do they need to have done in preparation?

- It is suggested to teachers that some background to the topic be taught and practised in class prior to the trip so students are aware of the scientific skills they will be using.

What skills do they need to demonstrate?

- Recognising when a simple fair test is necessary.
- Making decisions about how to record and analyse data.
- Identification of key variables & choosing one to investigate.
- Making accurate observations.
- Using scientific terminology to describe findings.
- Working scientifically.

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This activity was compiled by Education Destination in conjunction with **Blackgang Chine**. We help students of all ages and abilities to experience excellent curriculum based learning opportunities at many Island venues and attractions.



edudest.info

Blackgang Chine. Land of Imagination will entertain, engage and excite visitors of all ages. This coastal theme park allows the imagination to run wild. Become a pirate, dinosaur expert or cowboy and discover the hidden world of the smugglers!



blackgangchine.com

For further reading about the Isle of Wight, **wikipedia** offers an excellent article.

This would serve as an ideal introduction for learners prior to their visit, and is suitable for ages 7 upwards.



wikipedia.org

What other follow-up tasks are there?

Key stage 2 students could also:

- Design more complex experiments to test the speed of different objects with variables as a focus.

Is there any scope for future learning at Blackgang Chine?

- ✓ Yes. There are many other subjects and tasks developed for this key stage and for subsequent visits. There is much to be learned here.
- ✓ See our website's venue pages for more great learning options!

