

TEACHER NOTES

Science: Physics

Resistance and Friction

Contextual Summary

This resource is for students in upper key stage 2. It relates to the 'Forces' part of the Science curriculum.

Students will be identifying the effects of friction, water and air resistance on moving surfaces.

Task Implementation

This is a pre- and post-visit resource, designed around the students' ferry journey to the island.

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They will also investigate water resistance on a variety of different boat shapes, thinking about fair tests and variables.

Ability Levels

There are two variants of this resource for students of higher and lower ability in upper key stage 2.

The language is simpler in the lower ability version and requires less detail. Teachers can support as necessary.

Key skills practised in this unit:

- ▶ Working individually, in pairs, or groups, to solve problems
- ▶ Investigation skills.

Relationship to Curriculum

This resource links to the required teaching as specified by the National Curriculum 2014 for Science at key stage 2.

This includes: physics/ forces; identifying the effects of air resistance and friction that act between moving surfaces.



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SUBJECT

Science: Physics

UNIT

Resistance and Friction

OPPORTUNITIES FOR USE

- ✓ Pre-Visit
- ✗ On-Site Activity
- ✓ Post-Visit

CURRICULUM / SYLLABUS

- ✓ National Curriculum 2014
- ✓ Curriculum for Excellence

Applies to Resources numbered:

107041
107042

Learning Opportunities

Pre-Visit or Post-Visit

- ▶ Students complete the Science resource linked to this teacher note:

Resource ID:

107041 (KS2U low-mid ability)

107042 (KS2U mid-high ability)

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Learning Outcomes

- ✓ Students will understand about forces and how they affect moving objects.
- ✓ They will practise speaking and listening within pair, groups and whole class.
- ✓ They will plan and carry out a scientific investigation.

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