

Science Lesson on Forces Designed to Scaffold the Language and Learning of EAL Children.

- Based on the Key stage 2: QCA scheme of work: Primary science unit:
- Sc4 Physical processes; Forces and motion

The objectives of which are to design and carry out experiments to show that;

- 2b: objects are pulled downwards because of the gravitational attraction between them and the Earth
- 2c: friction, including air resistance, is a force that slows moving objects
- 2e: identify the direction in which forces act

Content overview

1: a pre-teaching pack to assist understanding of key science vocabulary and concepts in 'Forces' for EAL pupils containing:

- barrier games (Crossword puzzle with divided clues),
- matching activities (a word, picture and definition for a science glossary)
- Interactive computer games for problem solving and assessment questions.
- contextualization through problem solving (A letter from Ahmed)
- A click by click guide to creating a PowerPoint presentation with an animation demonstrating what happens to falling objects in a vacuum and in air.
- 2: A student pack with
- objectives and outcomes for the lesson.
- visuals for key vocabulary and concepts.
- Guiding questions to activate prior knowledge and order thought.
- key visuals to support the choosing of variables in an experiment : for collecting data : and for line graphs:
- Assessment forms for the lesson and collaborative learning

3: A teacher pack with an overview of:

- Lesson activities and resources.
- The language functions and structures that match the activities, as a guide for question stems and the modelling of language
- EAL scaffolding strategies.
- A4 visuals of vocabulary and concepts to be enlarged for display as language and concept prompts.