



BRING HOME THE AWESOME
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TOPIC - Create a context for the rocket-building exercise

TITLE - Emmet's Awesome Rocket Challenge

KEY STAGES - 1 to 2 ages 6 -11

AIMS:

- **Introduce** the rocket-building challenge.
- **Engage pupils** in a competitive, team-building activity.
- **Build self-esteem** without damaging the confidence of others.
- **Encourage pupils** to engage fully with *The LEGO® Movie 2* Challenge.

EQUIPMENT

- **Teacher Pack** including launch pad & sticker sheet.
- **PowerPoint**.
- **Pupil Activity Sheet** to support Lesson Plan.
- **Teacher guide**.

STARTER (TEACHER-LED/WHOLE-CLASS)

- **Pupils to share** their knowledge of space travel today & in the past.
- **Teacher shows** Teacher Pack, displays contents.
- **Using the PowerPoint** presentation, the teacher explains the challenge that faces Emmet (to save Lucy from the Duplo invaders) in *The LEGO® Movie 2*.

LESSON 1-





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FIRST PHASE (TEACHER-LED WHOLE-CLASS)

- **Teacher:**
 - sets out in detail the rocket-building task.
 - outlines overall time frame.
 - explains the launch pad & sticker sheet.
 - describes opportunity to use recyclable materials in rocket construction.
 - describes opportunity to utilise elements of pupils' own LEGO® sets in the construction.
 - describes the classroom logistics e.g. dividing the class into pairs (during 2nd phase).

SECOND PHASE (PAIR WORK)

- **Teacher** divides class into pairs.
- **Class asked** to conduct research into:
 - the history of space exploration.
 - history & types of rockets.
 - major space achievements & setbacks.
 - types of propulsion for safe, home-made rockets.
 - overall design of rockets.

THIRD PHASE: (PLENARY)

- Teacher asks pairs to share early feedback from space exploration research.

FOURTH PHASE:

Homework (optional)

Pupils asked to:

- complete research phase in detail.
- produce outline sketches for possible rocket design.
- discover potential for use of recyclable materials & existing LEGO® materials from home & elsewhere.





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CURRICULUM LINKS

Science DFE National Curriculum:

All pupils:

- Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics.
- Develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific enquires about the world around them.
- Are equipped with the scientific knowledge to help them understand the uses and implications of science, today and for the future.

Maths DFE National Curriculum:

- Solve problems by applying their mathematics to a variety of routine and non-routine problems, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Art and Design DFE National Curriculum :

- Pupils should be taught to develop their techniques, including their control and their use of materials, with creativity, experimentation and an increasing awareness of different kinds of art, craft and design.

English DFE National Curriculum:

- Use discussion in order to learn: they should be able to elaborate and explain clearly their understanding and ideas.
- Are competent in the arts of speaking and listening, making formal presentations, demonstrating to others and participating in debate.

