

Tall Towers Workshop



About the Workshop:

The Tall Towers Workshop is a 30-minute educational workshop intended to introduce young learners to the world of structures.

Held inside the LEGOLAND® Discovery Centre, pupils are able to learn by playing, providing them a Fun, unique, hands-on educational opportunity.

Pupils participate in building challenges intended to teach them the importance of teamwork and communication.

Tall Towers also provides a classroom setting where they learn about elementary construction principles, the many natural and man-made structures in their world, and the effects of natural disasters on tall buildings.

The Tall Towers Workshop is recommended for children between the ages of 6-9 (Key Stage 1 and 2).

Education Objectives:

The objectives of this workshop are to give your group the opportunity to:

- Learn about structures such as houses and towers.
- Learn how to increase the stability of tall structures through hands on experiments and experience in a workshop.



LEGO, LEGOLAND and the LEGO logo are trademarks of The LEGO Group. © 2010 The LEGO Group.

Tall Towers Workshop

National Curriculum Standards:

The Tall Towers Workshop corresponds to the following areas of the National Curriculum:

Key Stage 1:

Design and Technology

1a, b, c, d, e: Pupils will create a LEGO® tower based on their own experience, and then will discuss their towers with other students to develop ideas as to how to make their towers as strong and stable as possible.

2d: Pupils will build with LEGO bricks

3a, b: Pupils will discuss their LEGO towers, and suggest ideas how to improve their original designs. They will then rebuild and retest their towers based on this discussion and feedback.

Science:

Sc1-2a, b, c: Pupils will plan how to make their Towers as tall and sturdy as possible, based on previous experience and questioning

Sc1-2h, i, j: Pupils will make comparisons between their towers, and discuss whether what happened was as expected. Pupils will explain to each other how and why they built their towers as they did.

Key Stage 2:

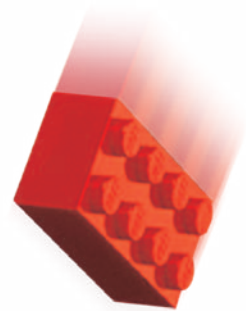
Design and Technology:

3a, b, c: Pupils will build LEGO towers and identify ways to make them more sturdy. Pupils will carry out appropriate tests to see if their improvements were successful

Science:

Sc1-2b: Pupils will be taught the importance of testing through observation and measurement.

Sc1-i, j, k, l: Pupils will build their towers and use observation to draw conclusions. Pupils will use their knowledge to explain their observations and make comparisons.



Tall Towers Workshop

After the Workshop:

MINILAND

Visit MINILAND and discover the Famous landmarks of the North-West made From LEGO® bricks!

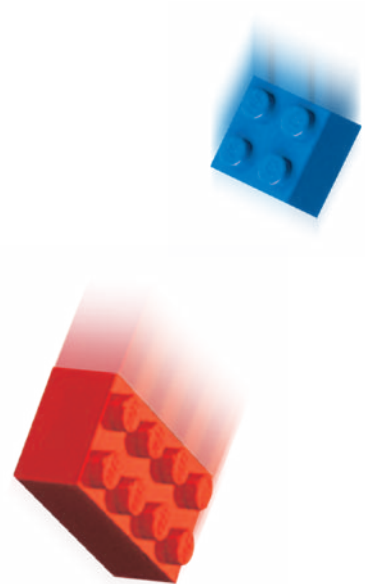
Bob the Builder 4D Cinema show

Join Bob the Builder and his Can-do Crew and learn about the importance of planning and design when constructing a roller coaster!

Classroom activities after the visit:

Paper bridges

- Take a piece of A4 paper and place it between two tables at a distance of approximately 20cm.
- Flat, the paper will fall to the floor. It is not very strong or stable.
- Roll the paper up to form a tube, fasten it with tape, and place it between the two tables.
- By modifying the paper its stability/strength changes.
- Discuss the findings.
- Fold the paper into other different shapes and test its strength/stability.



LEGO, LEGOLAND and the LEGO logo are trademarks of The LEGO Group. © 2010 The LEGO Group.