

#HOMESCHOOLING

Build a Block Tower

Skills that are being tested

- Mathematics
- Physics
- Art and Design

Careers in Construction it relates to

- Quantity Surveyor
- Cost Management
- Design Management

Overview

Build a cost-effective and free-standing tower. This is a great way to teach your child how to budget and equally brings out their creative side. Below is an example of how to cost up the blocks, but you can make the costings easier or harder depending on the age of your child.

Age Range: 8 to 13 years old

Equipment

- Pad/paper and pen for calculations and design.
- Lego/Mega blocks - any building blocks you can get your hands on!

How to run the activity

- Explain what the challenge is - to build a cost-effective and free-standing tower.
- Cost out the blocks on paper for your child to refer back to. An example is listed below. Design and build a tower costing £150 with the following LEGO blocks:

Yellow	1x2	10p
Blue	1x3	20p
Green	1x4	50p
Red	2x2	£1
Black	2x4	£2
White	2x8	£4
Pink	3x3	£5
Purple	3x6	£10

- Set a time constraint: suggested times are 15 minutes to design and 30 minutes to build.
- Set a goal: a suggested height goal is 50cm but this can change depending on the age of the child.

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using the hashtag
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- Added points for creativity: the most renowned towers have a unique appearance and are visually appealing.
- Allow your child to be creative, but remind them of the rules to complete the tower.
- Ensure to remind them of the time constraints as they are building.

On completion of the activity

- How tall is the tower?

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