



CONSTRUCTION WORK

**Have you ever wondered how buildings are made?
Let's try constructing a building of your own!**

When you are working on this project, you will:

- Think about the materials that people use in construction,
- Look at examples of buildings around the world,
- Make your own versions of famous buildings!

There is evidence of homes being built as far back in time as 18,000 BCE.

Boeing's Everett Factory is an airplane assembly building in the USA. The floor has an area of almost 400,000 square metres!

The Empire State Building in New York was the first building to have over 100 floors.

This pack includes:

- Information to help you learn about why people use different materials in their constructions,
- Images of famous buildings from around the world,
- A template to help you plan your own construction.

If you enjoy this project, why not...?

- Learn more about architecture by visiting www.archkitecture.org. They have a number of project ideas [here](#).
- Find out how architecture has changed through time by looking at the examples on [BBC History](#).
- Have a construction challenge with a friend. Can you both build something that will reach a set height, hold a particular weight or balance across a gap?

CONSTRUCTION WORK

People use many different materials when they are constructing buildings. Their choices might be based on the strength, appearance, availability and prices of those materials.

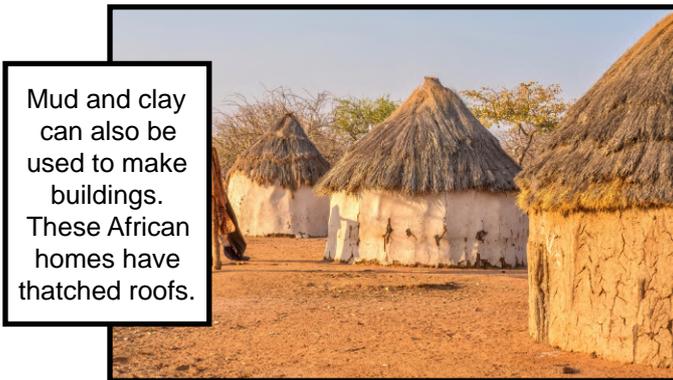
Here are some examples of how different materials have been used to make structures around the world.



Igloos can be made of snow and ice. It is free and in cold places, there is often plenty of it!



Rock and stone have been used to make buildings for thousands of years.



Mud and clay can also be used to make buildings. These African homes have thatched roofs.



Wood is strong, flexible and used in construction around the world.



Bricks are blocks of material that have been fired in a kiln. They are joined together using mortar.



Metal (e.g. steel) is often used as the framework for larger buildings. Concrete and glass may be used in their construction too.

How many materials can you use to make your own model building?

Wooden blocks	Duplo or Lego	Paper	Card
Shoe boxes	Paint	Egg cartons	Plastic tubs / pots
Plastic bottles	Cardboard tubes	Bottle tops	Glue
Silver foil	Lollipop Sticks	Junk materials	Cereal boxes
String	Papier-mâché	Plasticene	Sticks

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Buildings come in all shapes and sizes.

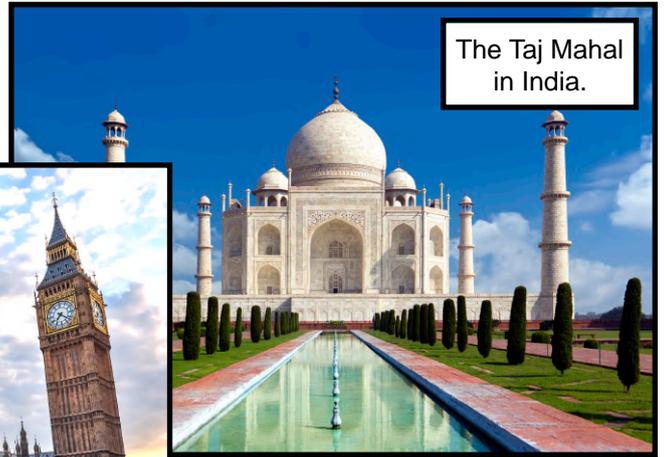
Look at the examples below to get some inspiration for your own amazing constructions!



The Leaning Tower of Pisa in Italy.



The Houses of Parliament in the UK.



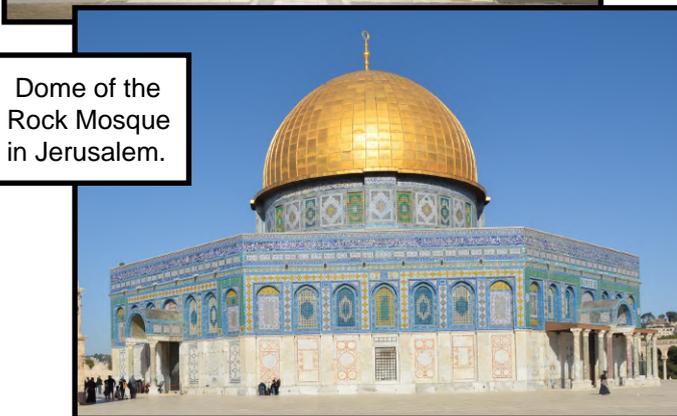
The Taj Mahal in India.



Forbidden City in China.



Sydney Opera House in Australia.



Dome of the Rock Mosque in Jerusalem.



Cologne Cathedral in Germany.



Petronas Towers in Malaysia.

Can you make a model of one of these famous buildings?

Use the template on the following page to plan your design!

CONSTRUCTION WORK

I am going to make:

My building will look like this:

Can you add labels to show the different parts of your building?

I will use these materials:

I will start by:

Next, I will:

Finally, I need to:
