

Pre and Post visit activities Bridge Builder Challenge workshop 2007



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Pre and Post material Bridge Building Workshop Key Stage 1 & 2

Thank you for booking the Bridge Building Workshop. This pre-visit material has been designed to familiarise your class with some of the activities they will experience during the Workshop.

Both the pre and post-visit material and the Workshop incorporate elements from the National Curriculum.

Grouping and classifying materials.

KS1: recognise and name common types of material and that some of these materials are found naturally.

Find out about the uses made of a variety of common materials.

KS2: to compare everyday materials on the basis of their properties, including hardness, strength, flexibility and to relate these properties to everyday uses of the materials.

Pre Visit Activities:

Key Stage 2:

Glossary

Describe the following words so you can form a glossary of terms;

Tension

Compression

Suspension

Arch

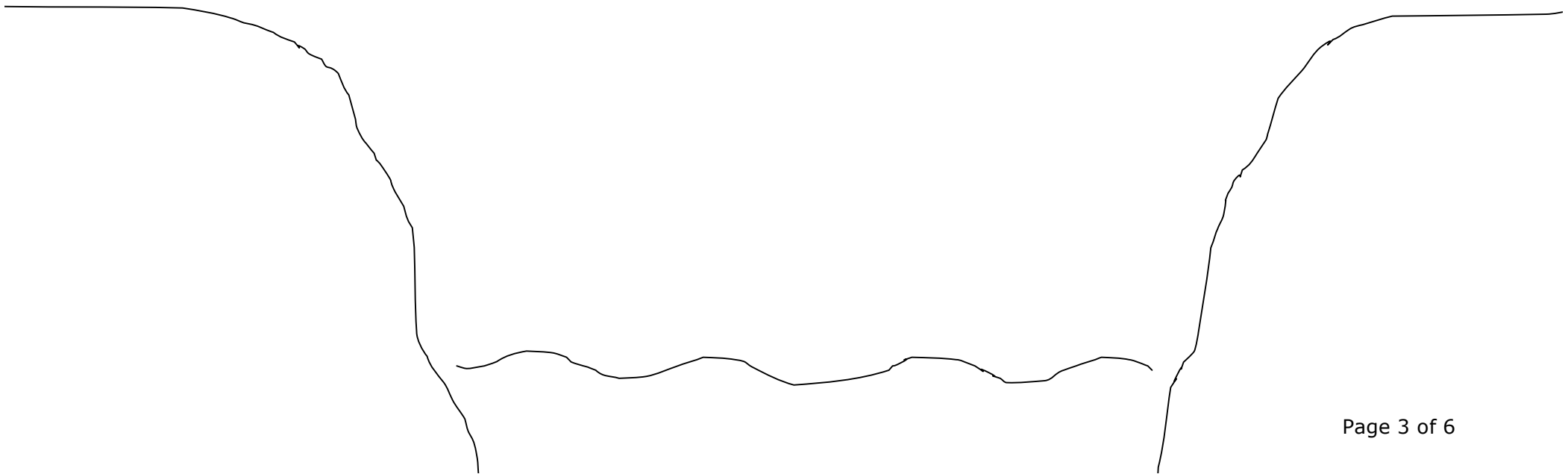
Beam

Key Stage 1 & 2:

Drawing Bridges

Using the template on the following page; photocopy and hand out to the class. Ask pupils to think of a design and then draw their bridge over the river.

Draw a bridge over the river



Post Visit Activities:

Key Stage 1:

Bridge building Materials:

Ask your class for their ideas about which materials real bridges are made from. Suggest materials like stone, brick, metal, wood but also mention unsuitable materials like paper, string or jelly. Discuss, with the group, why some materials are more suitable than others for building bridges.

State that stone, bricks etc are all hard and strong so they are good at supporting weight. Materials such as paper and string, though quite strong, are soft and delicate compared with bricks, stone and metal, so are not as good at supporting weight.

Key Stage 2:

Match the Bridges:

Using the template on the following page, make photocopies and hand out to the class. Ask the class to draw lines between the pictures and the writing matching each bridge with the correct name (one has already been completed to give the children an example)

Can you match these Bridges to their correct name?

Draw a line from the name to the picture it belongs with



Arch Bridge



Clapper Bridge



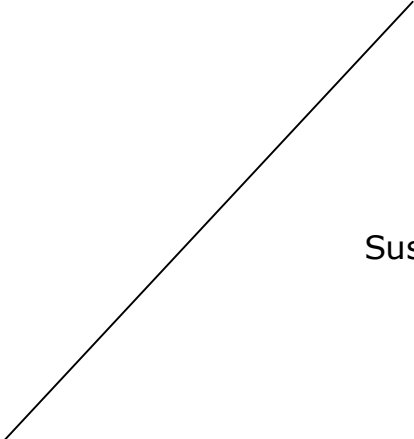
Suspension Bridge



Cantilever Bridge



Cable-Stayed Bridge



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