



Constructing a paper-based binary tree

Construct a paper-based binary tree using a set of 2D and 3D shapes.

Prepare some strips of paper for recording the questions.

Use the set of red arrows for 'no' answers and green arrows for 'yes' answers.

Use the pictures of shapes and arrows provided in the help file if necessary.

Using a set of shapes, select two of the shapes, e.g. a square and a sphere.

Ask a question to distinguish between them. The answer must be yes or no, for example:

Is it a flat shape?

Put down a red and green arrow leading from the question strip.

Put the square at the end of the green (yes) arrow and the sphere at the end of the red (no) arrow.

Now choose another shape, such as a cube. Ask the first question again.

This time the answer will be 'no'.

Follow the no arrow and construct a question to distinguish between the sphere and the cube. The question might be:

Does it roll?

Position this question strip at the end of the red arrow, with a red and green arrow leading from it.

Repeat this process with each shape in turn.

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