

Making Shapes



Name: _____

1 Complete the following sentences by adding a word that makes sense.

- a In the past, most materials, like wood and clay, came from the _____.
- b Plastics are the newest kind of material; they are _____.
- c Objects made on a potter's wheel are _____.
- d Most bricks are made by _____ clay through a _____ that is shaped like a rectangle.
- e Bentwood chairs are made by bending wood into shape. The wood is _____. This makes the _____ in the wood soft. The wood becomes _____.

2 Use the text to check the words that you inserted into the sentences above. Then assess your attempts by categorising and rewriting your words in the grid below.

Accurate – same as word in text	Synonym – means same as word in text	Altered meaning – word makes sense but changes meaning of text	Didn't make sense

3 The following words are often confused because they look very similar. However, the letter 'e' at the end of the word changes the meaning. Use your dictionary to find each meaning.

Word	Definition	Word with an 'e'	Definition
lath		lathe (page 8)	
breath		breathe (page 9)	
cloth (page 13)		clothe	
bath		bathe	

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- 1 A die is a device used to cut or form material in a machine that stamps, presses or forges. There are two main types of die. Reread the text and sort the following products into the table, showing which die was used to shape them.

<i>bricks tyres saucepans wire coins car panels staples</i>						
Die – an engraved stamp for impressing a design upon a material				Die – a steel block or plate with small holes through which a material is drawn or forced		

- 2 Use the book and the data chart below to gather information about the following materials. Only write key words in each box. Some boxes have been started for you.

Material	Source	Properties	Shaped by	Products
clay				
wood	trees			
rubber		stretches		
copper			spinning lathe	
steel				nails, pins
glass		smooth		

- 3 Cut out the boxes below and sequence them in the correct order to show the process used for injection moulding. Draw a sketch for each stage of the process to accompany the text.

The shape sets solid.

The plastic granules melt.

The mould is opened and the shape drops out.

The plastic cools rapidly.

Granules of coloured plastic are fed into the moulding machine.

A screw or a plunger pushes the plastic into a heated chamber.

The liquid plastic is then forced into a shaped mould.