WALT use testing to understand the properties of materials

You will need the materials that you collected earlier including a magnet and a nail or something sharp.

Follow the instructions below to test each material for its properties and record the appropriate number for hardness and flexibility; or a yes or no to answer if it is transparent, magnetic or permeable.

Hardness test.



Follow these instructions to test the properties of different materials.

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magnet, it is a magnetic material. If it is not attracted	Using the pointed end of a nail, carefully try to scratch the surface of each material. Number the materials from 1 to 5, with 1 being the softest material and easiest to to scratch with the nail, and 5 being the hardest material and hardest to scratch with the nail. Wear goggles for this test.
Transparency test.	Flexibility test.
completely see through it, it is transparent. If you can see	Tru to gently bend each material over the edge of the

Permeability test.

Magnetism test.

If a material is permeable, it allows liquids to go through it. Impermeable materials do not allow liquids through, so they are waterproof.

Place each material over a jar that is in an empty tray, using an elastic band to hold it in place if necessary. Pour 20ml of water onto the material. If the material is permeable, some or all of the water will go through it into the jar. If it is impermeable, the water will stay on the material or run off it into the tray. Cross or tick to show whether each material is permeable.

Record your results below.

	Properties				
Material	Magnetic	Hardness	Transparent	Flexibility	Permeable
	Y or N	1 - 5	Y or N	1 - 5	Y or N