



**Core Knowledge**

**Properties of Materials**



**wood:**  
hard, stiff, strong, opaque, can be carved into any shape.



**glass:**  
waterproof, transparent, hard, smooth.



**plastic:**  
waterproof, strong, can be made to be flexible or stiff, smooth or rough.



**metal:**  
strong, hard, easy to wash.



**paper:**  
lightweight, flexible.



**cardboard:**  
strong, light, stiff.

**brick and rock:**

hard, stiff, strong, opaque, rough, heavy, hard to break.



Different materials can be used for the same object (eg a spoon can be made of metal, or wood, or plastic)

Materials can be used for more than one thing (eg a metal kettle, a metal bucket, a metal key).



**Key Vocabulary**

Vocabulary	Definition
materials	Materials are what objects are made from.
suitability	Suitability means having the properties which are right for a specific purpose.
purpose	Ways to describe what a material is like and how it behaves.

**Squash** an object by pushing both hands together.

**Bend** an object by grabbing both ends of the object and bringing the ends inwards together.

**Twist** an object by turning your hands in opposite directions.

**Stretch** an object by pulling your hands slowly and gently apart.

**Scientific Enquiry**



Answering questions and concluding



Engaging in practical enquiry to answer questions

**Game** [Everyday materials - BBC Bitesize](http://www.bbc.com/bitesize/primary/2/science/uses_of_everyday_materials/game)