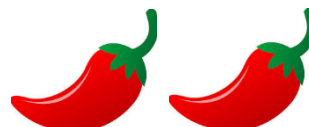## Investigation

- Name a variety of materials
- How do these materials feel?
- What are these materials used for?
- Why do materials feel different?
- Create a classification key to help you

Hard	Soft	Both
Fork	Cotton-ball	Playdough

Diagram and Report

- Choose an object, draw it and label the variety of materials it is made up of. Why are these materials useful to that object? Example: What materials make up a car?
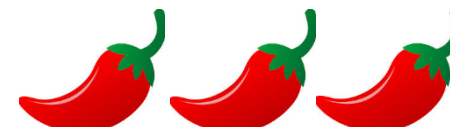

Everyday Materials

Year 2 Science Takeaway Homework Menu

Investigation and Explore

- What do you think? Why?

Object	Material	Properties of Material	Good Choice? Why?
Jumper	Glass	?	?
Wall	Paper	?	?
Window	Wood	?	?
Car	Metal	?	?
Free Choice			
Free Choice			

Create

- Create your own car (or any object) by drawing a diagram.
- What materials would it be made up of?
- Why are your chosen materials best suited for the object of your choice?

National Curriculum Expectations

- identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses
- find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching

STEAM Activities? What's the best material?

Problem 1: I have been sleeping terribly recently because as the mornings are becoming brighter, the early morning sunshine is waking me up.

- What solutions do you have?
- Do I need better curtains in my bedroom that would not let the light through?
- Use a torch and a variety of transparent, opaque, translucent objects to test out and solve my problem.
- Write a report of your findings

Problem 2: Can you create a bridge that can hold x10 pound coins? Which materials work best?

Scientific Vocabulary:

- opaque, transparent and translucent, reflective, non-reflective, flexible, rigid, Shape, push/pushing, pull/pulling, twist/twisting, squash/squashing. Bend/bending, stretch/stretching

Takeaway homework guidelines

- It is up to you to choose what task to complete.
- Choose a task that is appropriate – but remember, the more you push yourself the more of a scientist you will become!