



Big Question:

What do I need to make the best moon buggy?

Key Vocabulary:

Design: A plan to make something



Float: Stays on the top of a liquid



Heavy: Having a lot of weight; hard to lift



Light: Doesn't weight a lot; easy to lift



Project: A set of jobs to reach a goal



Sink: To fall or drop



Strong: Not easy to break

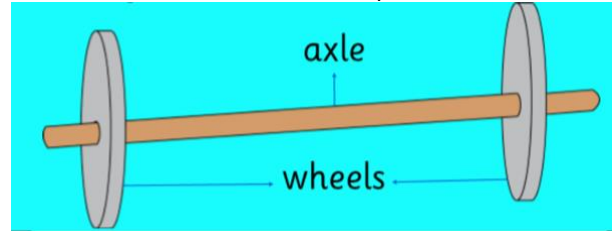


Transparent: Light passes through and you can see through



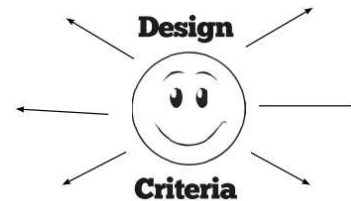
New knowledge that will help me answer the big question:

- Computer aided design is using a computer to help design products.
- An axle connects two wheels and helps them turn.



New knowledge that will help me answer the big question:

- Design criteria are what a project needs to do.



- A strength is a good thing about a piece of work.
- A weakness is something that needs improving in a piece of work.



- Rules are made to keep people safe

New knowledge that will help me answer the big question:

Different materials are good for different things:

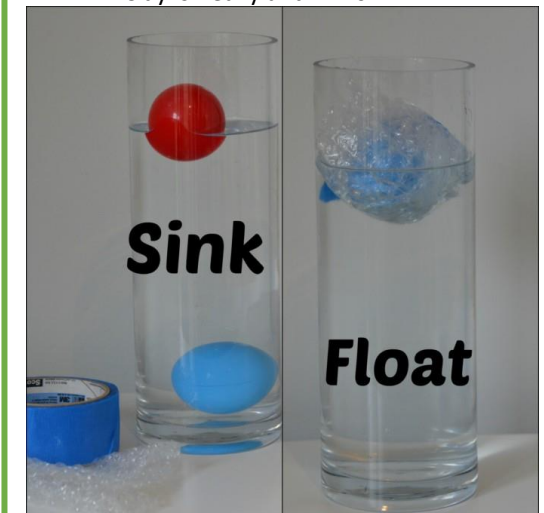
- Glass is transparent so is good for windows.



Transparent



- Cardboard is a stronger building material than paper.
- Plastic is light and will float.
- Clay is heavy and will sink.



As a designer, the essential knowledge I need to answer the big question is:	Date
Different materials are suitable for different purposes, depending on their specific properties. For example, glass is transparent, so it is suitable to be used for windows.	
Design criteria are the explicit goals that a project must achieve.	
Computer-aided design is when computers are used to help design products	
Select the appropriate tool for a simple practical task	
An axle is a rod or spindle that passes through the centre of a wheel to connect two wheels.	
Rules are made to keep people safe from danger.	
Different materials can be used for different purposes, depending on their properties. For example, cardboard is a stronger building material than paper. Plastic is light and can float. Clay is heavy and will sink.	
A strength is a good quality of a piece of work. A weakness is an area that could be improved.	