



Do science from home: Build a Better Umbrella

Begin doing science by introducing our new concept

We can do science and learn about a new concept in this experiment! Inventing solutions to problems by building something is called engineering! We engineered trains to get to far away places quickly and umbrellas to keep us dry when it rains. We can have lots of fun and learn a lot about engineering by trying to make a good umbrella using items we have laying around the house!

Equipment:

We can do science by using **materials from around the house**- some examples are paper clips, post it notes, cardboard, sponges, tooth picks, glue, tape, popsicle sticks, coffee filters etc



Methods:

- 1 Gather materials from around your house like tooth picks, popsicle sticks, glue, tape, coffee filters, sponges, or whatever else you think may help you build an umbrella.
- 2 Do science and sketch a blueprint of your design!
- 3 Build a small scale model of your design using the materials available to you. Instead of building a life sized umbrella we can start by building a smaller version of the umbrella for our toys.
- 4 Do science and test your mini umbrella by pouring water over it!

Results & Discussion

★ An important part of doing science is discussing why we think things happen ★

- What did you observe?
- What material would make a good umbrella? Why?
- How do we keep an umbrella strong when the rain pushes down?
- Do you enjoy doing science?

