

ANU STEM Bags for National Science Week - Shopping list

Bubble activities

- Dishwashing liquid
- Large bowl filled with water (1L)
- Plastic straws
- Metal coathanger

Overflowing surface tension

- Paper clips
- Cup (transparent is better)

Build a wind turbine

- Paper cups
- Paper straw
- Wooden skewer
- String - 2m
- Tape
- Bluetack

Chain Reaction & Leonardo Da Vinci Bridge

- Paddle pop sticks

Make a solar oven

- Foil
- Tape
- Marshmallows for melting
- Paper plate or paper
- Cardboard box

Biodiversity counting

- Activity sheet (available for download on the website)

How to make a rainbow

- Light
- Mirror
- Glass of water

Spaghetti & marshmallow construction challenge

- Spaghetti
- Marshmallows



Water Jugs Puzzle

- 10 paper cups
- 15 marbles

The boodie game

- Paper cups

Investigating the pH of substances

- pH strips
- 10-15 different household liquids and cups to put them in

Are rocks magnetic?

- Hematite
- Quartz
- Basalt
- Magnet
- Bowl of water
- Piece of styrofoam/sponge/foil (something that floats on water)

Water quality testing

- pH strips
- TDS (total dissolvable solids) meter
- Collection jars
- Coffee filter paper
- Rubber band

Instructional videos available here:



Sponsored by



ANU STEM Bags for National Science Week

For National Science Week, we have put together STEM Bags full of free educational resources designed to provide hands-on learning experiences for children related to different STEM fields. The bags contain a range of equipment, materials, and resources for conducting hands-on experiments and learning activities and are designed to be accessible and engaging for children of all ages. We hope you enjoy the activities!

Included activities:

- How to make a rainbow
- DIY wind turbine
- Water jugs puzzle
- Water quality testing
- Spaghetti and marshmallow tower
- Make your own solar oven
- Are rocks magnetic?
- How to blow bubbles in a bubble
- Chain reaction
- Leonardo Da Vinci bridge
- The boodie game
- Investigating the pH of common household substances
- Overflowing surface tension
- Biodiversity counting
- Making a cube bubble



Adult supervision is required for younger children. Adults will be required to watch the videos and assist children with some of the experiments.

Bubble mix recipe:

- 1 cup dishwashing liquid
- 4 cups warm water
- 2 teaspoons sugar (optional)

Instructional videos available here:



Sponsored by



Australian
National
University

