

# CRAFTY TUESDAYS



## THERMOMETER

A thermometer is a great and easy craft that girls of all ages can do. The fun part is watching how the 'temperature' rises and falls depending on the heat of the liquid inside!

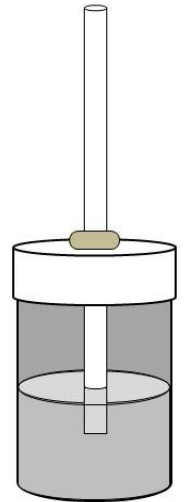
Here's a list of programming that girls can complete by making this thermometer:

Brownies: 'Key to STEM'      Guides: 'Try New Things'

Pathfinders: 'Everything comes from STEM.'

## MATERIALS

- Empty film canister (with the top)
- Scissors
- Pen or markers
- Plasticine/modelling clay
- Water
- Food colour
- Clear straw



## INSTRUCTIONS

- 1.** Make a hole in the film canister lid that will allow the straw to fit through it.
- 2.** Add a few drops of food colouring to the water. Pour into the film canister until it reaches the halfway mark.
- 3.** Insert the straw through the hole in the lid and secure the lid onto the canister so that the end of the straw sits in the water, but not flush to the bottom of the canister.
- 4.** Secure straw in place by adding modelling clay around the hole, ensuring air cannot escape.
- 5.** Set the thermometer down and note the level of the water at room temperature. Mark the thermometer's level on the straw with a marker. Move the thermometer into the sun, beside a radiator, or into a warmer room or tent (if camping!). Option: Have a girl jump up and down or dance for a few minutes to elevate her body temperature. Have her close her hands around the canister and watch the thermometer level rise!

**Enhance the Learning:** Guiders! Encourage the girls to think about what they are doing by asking questions such as:

- What caused the air in the canister to expand?
- How does this expansion affect the water level/s?