



# STEM BOXES MATERIALS LIST

**\*Please note items marked with an asterisk\* are not provided**

## Fireproof balloon

- Candle
- Balloon
- Lighter/Matches\*
- Water\*

## DIY spectroscope

- Holographic Diffraction Grating Film  
*try to avoid fingerprints/bending*
- Tape
- Scissors\*
- Template (download)

## Water density

- Funnel
- Food colouring
- Salt
- Sponge
- Container\*
- Hot and cold water\*

## DIY Lava lamp (two ways)

- Vinegar
- Cooking oil
- Bicarbonate of soda
- Food colouring
- Glass jar\*

## How to chill a drink faster

- Thermometer
- Paper cup
- Salt
- Sugar Spoon\*
- Ice\*
- Worksheet  
(download)

## Investigating plant thermoregulation

- Thermometer
- Worksheet (download)
- Potted plants\*
- Heat lamp or desk lamp\*
- Ice pack, ice or cold water\*
- Timer or stopwatch\*

## Decoding AI with Tic-Tac-Toe

- Notebook and pen\*

## Polite chocolate game

- Wooden cubes