



# STEM BOXES MATERIALS LIST

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

## Fireproof balloon

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

## Water density

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

## How to chill a drink faster

- Thermometer
- Paper cup
- Salt
- Sugar
- Spoon\*
- Ice\*
- Worksheet\*

## Decoding AI with Tic-Tac-Toe

- Notebook and pen\*

## How do your lungs work?

- Transparent pipe
- Funnel
- Tape
- T Connectors
- Balloons
- Print out of lungs picture\*
- Cardboard box
- Scissors

## DIY spectroscope

- Holographic Diffraction Grating Film -  
*Inside envelope - try to avoid fingerprints/bending*
- Tape
- Scissors
- Blue paper template or print your own

## Polite chocolate game

- Wooden cubes

## DIY Lava lamp (two ways)

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

## Investigating plant thermoregulation

- Thermometer
- Worksheet and pen\*
- Potted plants\*
- Heat lamp or desk lamp\*
- Ice pack, ice or cold water\*
- Timer or stopwatch\*

## How to make a stethoscope

- Transparent pipe
- Funnel
- Tape
- T Connectors
- Balloons

## How to make a camera obscura

- Cardboard box
- Headed pin
- Scissors
- Black tape