# AQA REQUIRED PRACTICAL:
# INVESTIGATING WAVES

## • HOW TO CARRY OUT THE EXPERIMENT •

### 1. FILL THE WATER TANK

Add water to a ripple tank to about 1cm deep.

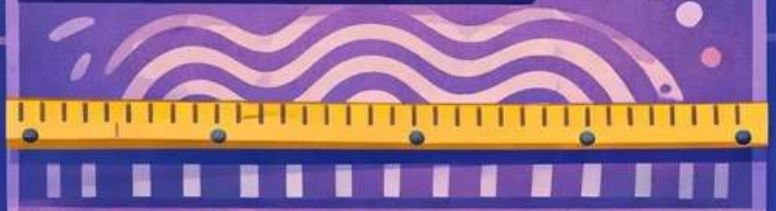
### 2. SET UP THE APPARATUS

Use the dipper and a lamp to project wave patterns onto a screen.

### 3. ADJUST THE FREQUENCY

Change the frequency of the waves.

### 4. MEASURE WAVELENGTH

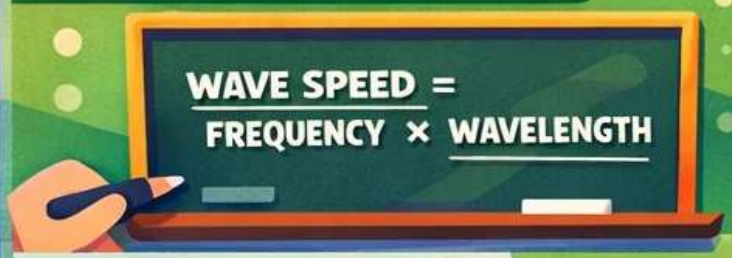


Measure the distance between the wave crests.

### 5. FIND THE FREQUENCY

Count the waves passing a point in 10 seconds.

### 6. CALCULATE THE WAVE SPEED




Use the formula: $v = f \times \lambda$

## REMEMBER: $v = f \times \lambda$

- $v$ : wave speed (m/s)
- $f$ : frequency (Hz)
- $\lambda$ : wavelength (m)