

# STEM at HOME



Check out our video



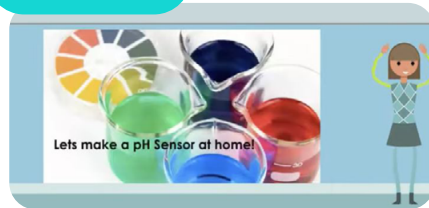
Interesting links



For parents and carers

Daily fun STEM learning activities for young learners between the ages of eight and eleven.

## MONDAY



### Sensors

Make a pH sensor and test the pH of everyday items

### Bio Sensing

About biosensing

What is a Biosensor?

We are biosensors ourselves!

Build your own Biosensor

### Chemical Sensing

Can you solve our liquid mystery?

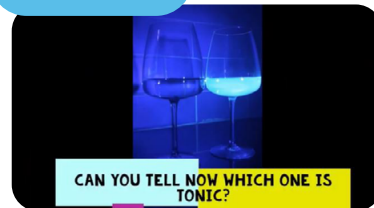
Can you solve our liquid mystery? Part 2

Ocean acidification

How does a lateral flow immunoassay work?

Coloured pigments as food, pharmaceutical ingredients and the potential health benefits.

## TUESDAY



### Luminescence

Learn about light emission

The chemistry of turmeric fluorescence

The chemistry of glow sticks

How glow sticks are made (try this in the science lab not at home!)

Chemistry and Light

How a flat panel display works

History of Quinine

Learn more about the different types of flat screen displays

## WEDNESDAY



### Batteries

Make your own battery

How batteries work

Battery facts

10 Facts about batteries

History of Quinine

Learn more about the different types of flat screen displays

## THURSDAY



### Wifi

Learn about electromagnetic waves and test your Wifi signal

### Mechanical Waves

Waves wavelength and amplitude

Sea waves

Sound waves

What is sound?

### Electromagnetic Waves

Electromagnetic Radiation

How Does Wi-Fi Work?

How mobile phones work?

## FRIDAY

### Choose from the activities below!

#### Learn about AI

Repeat the experiment you found the most fun!

Take a picture of your experiment or draw a picture inspired by the videos you've watched.

Send it to us at [cef@soton.ac.uk](mailto:cef@soton.ac.uk)

#### Watch a movie

- Dream big: Engineering our world
- To the Arctic
- Island of Lemurs: Madagascar
- If you build it
- Pirates of Silicon Valley
- Microcosmos

The videos have been developed by the team at the Centre for Electronics Frontiers. [www.cef.soton.ac.uk](http://www.cef.soton.ac.uk)

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