

# Finished your work? Let's SCIENCE!

Issue 4

14th May 2020

## Key Stage 3 section:

### The bicentenary of Florence Nightingale's birth.

Florence Nightingale is respected worldwide for her pioneering role in developing the nursing profession, her statistical work, and her evidence-based approach to healthcare. The Florence Nightingale Museum is open virtually for you to find out about Florence's life and legacy. You can access the site [here](#).

## Key Stage 4 section:

### Investigating gravitropism!

Dandelion stalks have a strong gravitropic response and if placed sideways will reorient themselves by bending upwards until they return to a near vertical position. The instructions for this practical are [here](#). You can swap the pipette for a straw at home that has blutac pushed into the end to contain the water.

## Science stories this week

[Brain cells reach out to each other through miniature cages](#)

[Nearest black hole to Earth discovered](#)

[Cyber-spinach turns sunlight into sugar](#)

[Sea levels could rise more than a metre by 2100](#)

[Elephants get drunk because they can't metabolize alcohol like us](#)

## Experiments you can do at home

Andy and his nephews make a beautiful colour changing liquid from cabbage juice, and explore the science of indicator solutions. You could extend this experiment to use other coloured flowers, fruit or vegetables as indicators, too. Do they all behave the same?

[Click to see the video.](#)

## Citizen science

Science can produce a LOT of data. Sometimes, there is too much for the scientists to look at themselves. This is where you can help, right now, to improve our understanding of the world around us. Each week we will showcase a different citizen science project that you could get involved with.

**This week's project** is Wild Mont Blanc where you can help to identify all the different animals caught on hundreds of thousands of camera images. [Click to join this project.](#)

## Science on the iPlayer

[Science and Islam](#): The story of the great leap in knowledge that took place in the Islamic world.

[Animals at play](#): New research now reveals that play is at the heart of almost everything an animal learns.

[Zoo Quest](#): Sir David celebrated his 94th birthday this week, this series showcases some of his earlier work.

## Eyes to the sky

This week sees Venus, Saturn and Jupiter stop their journey across the sky and then reverse their direction. How? Brian Cox explains retrograde planet movements [in this clip](#).