

# THE HIVE'S CHILDREN'S UNIVERSITY CLUB

JANUARY 2021

## MATHS

### Family Fun

Try out these fun Maths activities at home.

## Maths Fun From our Friends at The SCIENCE MUSEUM

### Shape Detectives (KS1)

<https://learning.sciencemuseumgroup.org.uk/resources/shape-detectives/>

This activity involves cutting out templates and looking through the openings to find these shapes in the real world.

[Shape Detectives template](#)

### Bottle Top Shapes (KS1)

<https://learning.sciencemuseumgroup.org.uk/resources/bottle-top-shapes/>

Shapes and patterns can be found all around us – from flowers to footballs and seashells to staircases. In this activity, simple lines drawn on bottle tops or jam jar lids provide a fun way into the wonderful world of geometry.

[Download Activity Sheet:](#)



## MATHS

### Family Fun

Try out these fun Maths activities at home.

### Bubble Geometry (KS2)

<https://learning.sciencemuseumgroup.org.uk/resources/bubble-geometry/>

Geometry is the study of shapes and their properties. This activity makes use of geometry in observing the shapes and angles soap bubbles create when they join together.

[Download Activity Sheet](#)

### Make an Animation (KS2)

<https://learning.sciencemuseumgroup.org.uk/resources/make-an-animation/>

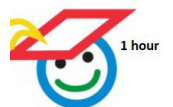
An animation is made up of a sequence of still images shown in rapid succession, each image slightly different from the last.

This activity involves making a device called a phenakistoscope, which displays a continuously looping animation consisting of images drawn onto a spinning disc.

[Download Activity Sheet](#)



When you complete an activity don't forget to write it down in your activity journal and take a photo of what you did. Send it to us to receive your CU code, credits mau vary with each activity



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## ART

Tate Britain Tate Kids has a wide range of activities to support children's learning in Art, including things to make and create as well as videos and quizzes around art appreciation.

<https://www.tate.org.uk/kids>

### Paint and Draw

#### PAINT LIKE TURNER

Learn the styles and techniques of this famous painter Turner often used watercolours to create his paintings. Follow these steps and have a go!

<https://www.tate.org.uk/kids/make/paint-draw/paint-turner>

#### MAKE MARBLED PAPER WITH FOAM

Make swirly patterned prints using multisensory shaving foam

<https://www.tate.org.uk/kids/make/paint-draw/make-marbled-paper-foam>



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**credits vary for each activity**

## ART

### Cut and Paste

#### COLLAGE A MATISSE SNAIL

Get creative with shapes and make a Matisse inspired collage. Matisse would listen to music as he worked. To get the creative juices flowing put on the radio and let the fun times begin.

<https://www.tate.org.uk/kids/make/cut-paste/collage-matisse-snail>

#### LEARN TO WEAVE

Be inspired by the artist Anni Albers, make a loom and weave some art to hang on your wall!

<https://www.tate.org.uk/kids/make/cut-paste/learn-weave>

*You will need:*

*Coloured wool (3 or 4 colours is best)*

*Scissors, ruler, lolly sticks, cellotape & glue,*

*2 cardboard strips (15cm x 3cm) and piece of cardboard (15cm x 18cm)*

### Sculpture

#### MAKE A UNICORN PUPPET or ANOTHER IMAGINARY BEAST

<https://www.tate.org.uk/kids/make/sculpture/make-unicorn-puppet>

Dig in the recycling bin to find your materials

#### WHAT YOU NEED

*Two empty loo rolls or a kitchen, towel roll, tape, string, glue stick, two lollypop sticks to hang the puppet from 4 bottle tops for the feet, a piece of old tin foil, scissors, pens or coloured pencils. white paper, a pin or thumb-tack, any other bits you want to decorate with (we used a few paper straws to cover the string for the legs, and a googly eye!)*

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## SCIENCE

**Dr Jo Science**

*our brand new learning provider*

### STEM LEARNING

Taking part in these lessons is simple - children first watch and make notes on the video. Parents/carers can then download the worksheets and invite children to complete each of the activities provided, referring back to the video as they go.

Why not try these (1 credit per activity):

Key Stage 1

**Animals including humans: parts of the body**

<https://stemlearning.wistia.com/medias/zeeoxfh77o>

Worksheet

**Animals including humans: staying healthy**

<https://stemlearning.wistia.com/medias/csexk61v1n>

Worksheet

**Living things and their habitats:**

<https://stemlearning.wistia.com/medias/oil59grd13>

Worksheet



When you complete an activity don't forget to write it down in your activity journal and take a photo of what you did. Send it to us to receive your CU code.

**credits vary for each activity**

## SCIENCE

DR JO SCIENCE

Key Stage 2

**Adaptations and interdependent camouflage**



<https://stemlearning.wistia.com/medias/3hylv5hccl>

Worksheet

**Animals: adaptations and evolution**

<https://stemlearning.wistia.com/medias/igi3yljqp2>

Worksheet

**Animals including humans: circulatory system**

<https://stemlearning.wistia.com/medias/p7s1of0neh>

Worksheet

### Wow Science

**Build The Change.**

<https://wowscience.co.uk/resource/build-the-change-lego/>

Express your hopes and dreams for the future with LEGO® bricks and other creative materials, plus your own imagination. 'Build the Change' explores really important topics to do with the environment and society. Watch short video clips and build your ideas for change.

Parents will need to support their children to safely register on the Lego Site with a username and password.



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## TECHNOLOGY

**Tech for Tuesday** 0.5 credits per session

- a different theme each week  
with information Video, challenge and  
PowerPoint Presentation

Example: **Tech for Energy**

Watch this lesson to find out how technology is helping us create sustainable energy, protect our planet and the kinds of future jobs you could have working with this type of tech.

If you are up for a creative challenge, then you could design your own smart home device of the future.

<https://techwecan.org/tech-for-energy/>

Parents or teachers will need to register on TechWeCan for FREE.

Once registered, they will have access to all existing and future resources on the site.

### Getting started

*If you're a parent or carer looking at home schooling in this uncertain time and would like to teach our Tech We Can lesson plans we appreciate you may need some extra guidance. Please watch our video below for some extra guidance on how these plans can be used at home, and refer to our handy Parents FAQs for any questions. You have 3 options given to you, low tech, mid tech and full tech.*

**Low Tech:** if you have access to the internet but no iPads or tablets

**Mid Tech:** if you have an iPad purchased more than 3 years ago

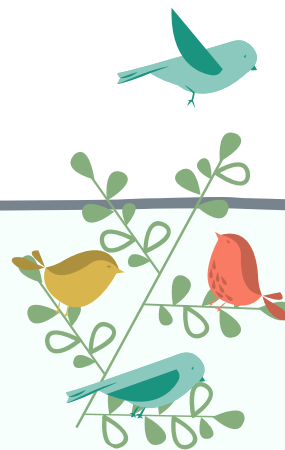
**Full Tech:** if you have access to an iPad or tablet purchased in the last 3 years



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**credits vary for each activity**

## NATURE



### Big Garden Birdwatch

Join us 29 - 31 January

<https://www.rspb.org.uk/get-involved/activities/birdwatch/>

Download your free online resource pack and join us in spending an hour to count the birds we see in our garden.

You don't need a garden to join in, you can do this in on a walk, in the park or just looking out of your window.

### Paw Print Bird watching

Grab your binoculars, find the bird feeders and get spotting! Fancy yourself as the next Bill Oddie?

The Birdwatching Challenge is here to help you enjoy a host of feathery fun and frolics!

<http://www.childrensuniversity.co.uk/activities/7751>



### NATURE

#### **PDSA PetWise School Award**

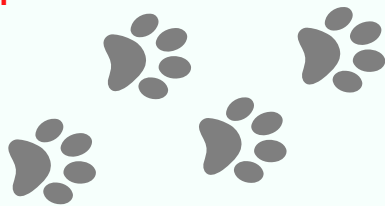
is a fun, free award programme aimed at primary-aged children to teach them all about pets and help them get PetWise!

Whether you're a schoolteacher looking for a fun, curriculum-linked topic that can be taught over a term or a parent looking for a free, educational project that your children can do at home, PDSA's award programme could be perfect for you. They've got lesson plans, presentations, worksheets and more all at your fingertips.

The best part? All the sessions are curriculum-linked so you can teach children about the 5 Welfare Needs and PDSA with no need for any extra planning. The award programme is made up of an initial launch day and three main levels: Bronze, Silver and Gold.

<https://www.childrensuniversity.co.uk/activities/7845>

**5 credits per level**



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**credits vary for each activity**



#### **Counting The Stars**



<https://www.schoolsobservatory.org/discover/stem-clubs/counting-stars-primary>

CU Family Activity

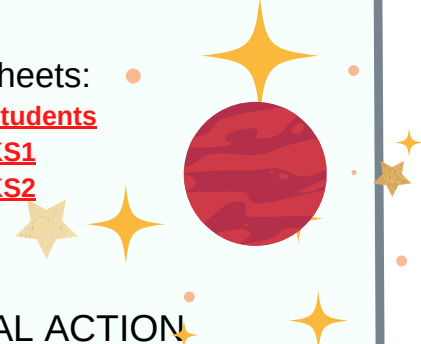
This activity involves parents and children calculating how many stars are visible in the night sky. Students count the number of stars in a small patch of the night sky then multiply their number by how many such patches would make the entire sky.

Download Worksheets:

[Activity sheet for all students](#)

[Recording sheet for KS1](#)

[Recording sheet for KS2](#)



SOCIAL ACTION

#### **Playing Fair: The Story of Fairtrade Footballs**

How are footballs made?

And why do we need Fairtrade footballs?

To find out, we go to Sialkot in northern Pakistan to see the production process first-hand.

We speak to stitchers and workers in two factories who talk about the difference that Fairtrade has made to their lives.

[Watch the video](#)

Challenge Sheets:

[KS1](#)

[KS2](#)

[KS3](#)

