

A vibrant illustration celebrating the 20th anniversary of the Glasgow Science Festival. The background is a dark purple with radiating lines. In the center, the number '20' is written in large, light blue, bubbly letters. The text 'CHEERS FOR 20 YEARS' is written in yellow, blocky letters across the '20'. The scene is filled with colorful balloons, confetti, and small figures of people celebrating. Fireworks are exploding in the background.

Glasgow Science Festival 2026: Cheers For 20 Years!

Primary STEAMS Activity Pack

Glasgow Science Festival 2026 will be in-person from
4th to 14th June.

Please visit the website for our programme.

www.glasgowsciencefestival.org.uk

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For classroom use please see listed on
each activity how they link to the national
curriculum.





Build a Winning Hand

Explore how hands move with this activity designed by Glasgow Science Festival

The Science

Your hands are made up of bones, muscles and tendons. There are three short bones in each finger and two short bones in each thumb called phalanges. Phalanges connect to five longer bones in your hand called metacarpals. The muscles that move your fingers and thumb are attached to phalanges and metacarpals by flexible tissues called tendons. When the muscles contract, they pull on the tendons, which move the bones. When you do activities like catching a ball and lifting weights, the bones, tendons and muscles in your hand work together to help you grip, throw and balance things.

Kit List:

- 1x A5 sheet of white paper (half A4 paper)
- 2 x paper straws
- 1 x scissors - ask an adult for help with these!
- String
- Colouring pens
- 1 x glue stick



Curriculum for Excellence:

1. I have the opportunity to choose and explore an extended range of media and technologies to create images and objects, comparing and combining them for specific tasks. EXA 2-02a
2. I can create and present work that shows developing skill in using the visual elements and concepts. EXA 2-03a
3. I am developing my understanding of the human body and can use this knowledge to maintain and improve my wellbeing and health. HWB 0-15a / HWB 1-15a / HWB 2-15a / HWB 3-15a / HWB 4-15a
4. I have investigated the everyday contexts in which simple fractions, percentages or decimal fractions are used and can carry out the necessary calculations to solve related problems. MNU 2-07a



Glasgow on Wheels

Colour in a Glasgow cityscape with a 3D bicycle designed by Glasgow Science Festival

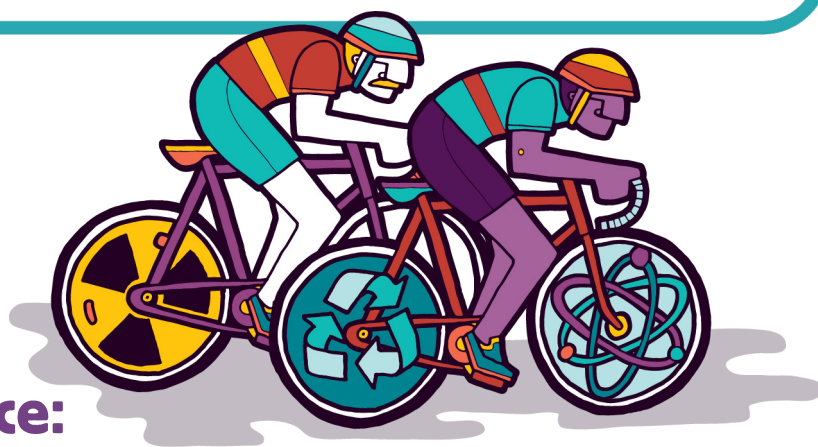
The Science

Bicycles work by harnessing power from our legs and converting it into kinetic energy. Kinetic energy is energy an object has because it is moving. For example, if you kick a ball, the energy it has while moving is kinetic energy. Bicycles can convert up to 90% of the energy generated when you pedal into kinetic energy. When you pedal, it causes the wheels to turn, moving the bicycle. The speed of the bicycle is dependent on how fast wheels turn, so the faster you pedal, the faster the bicycle goes. The size of the wheels plays a role as well. The bigger the wheels, the faster the bicycle goes when the wheels are turned.

Fun fact: Did you know that since cycling was added to the Commonwealth games programme, Scotland has won a total of 39 cycling medals – 10 gold, 15 silver and 14 bronze? Out of the 39 cycling medals, 10 were won in para-cycling sports. 5 of the 10 medals are gold, putting Scotland at the top of the all-time medal table in para-cycling disciplines!

Kit List:

- 1x Printed colouring sheet
- 1x Rectangular paper
- 1x Glue stick
- 1x Stapler and staple pin



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**GLASGOW
SCIENCE
FESTIVAL**



One-Of-A-Flag!

Create your own personal flag with this activity designed by Glasgow Science Festival

The Science

Every four years, athletes from the Commonwealth of Nations come together to compete at the Commonwealth games. As part of the Commonwealth Games tradition, a baton carrying a message from the King travels across all Commonwealth countries and eventually arrives in the host city right before the start of the games. This baton is known as the King's baton.

This tradition began in 1958 and for the first time since its inception, each nation and territory will have their own uniquely designed baton. These batons will be locally customised to reflect the culture and identity of each culture. There are 74 commonwealth games associations spread across the 56 commonwealth countries. All 74 batons will be united at the Commonwealth Games opening ceremony in Glasgow to reveal the full King's message.

This change is to make the games more sustainable and reduce the environmental impact of a traveling baton. It will also give the commonwealth countries the opportunity to showcase their culture and identity, making the games more inclusive and creative.

Just like the baton represents a country why not make a flag that represents you?

Kit List:

- 1 x A5 paper or card (half of an A4 sheet)
- Craft materials (glitter/ ribbon/ googly eyes – anything you can find at home!)
- 1x Glue stick
- Colouring pens



