

THE ROYAL SOCIETY


# SUMMER SCIENCE EXHIBITION


● Exhibits ● Talks and activities locations


## Other exhibits


 Science made visible exhibition

## General information

 Café

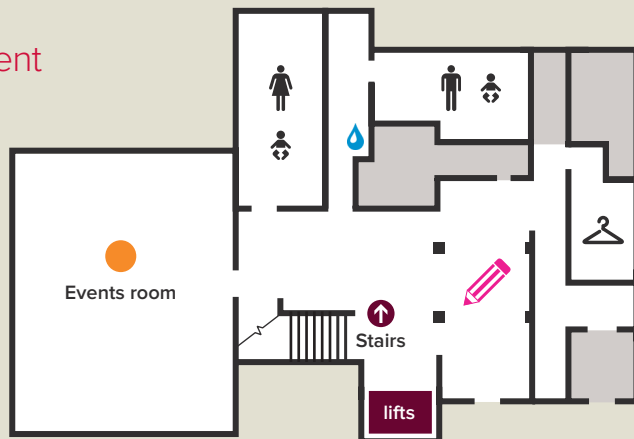
 Baby changing facilities

 Water fountain

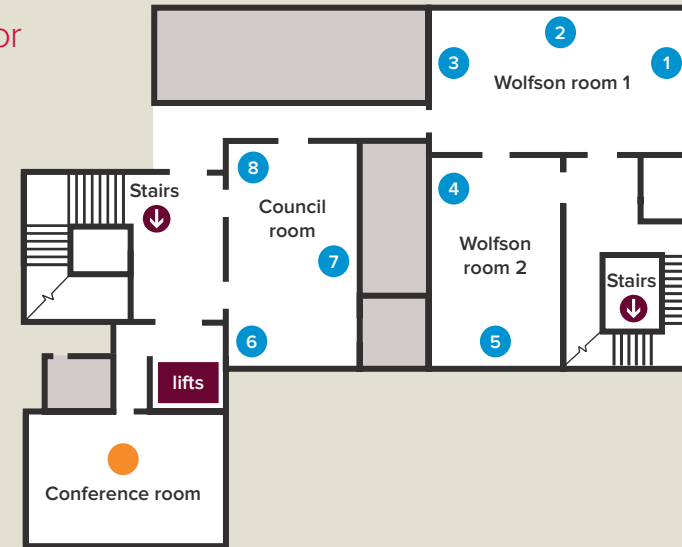
 Cloakroom

Please note: the cloakroom is unstaffed. Items are left at owner's risk.

## Basement



## First floor



## Ground floor



# Exhibits

## 1. Race against the ageing clock

Can researchers stop the ageing clock? Explore how studying our DNA may provide the answers.

## 2. Resistance is futile

Discover the advanced DNA sequencing technology being used in the fight against superbugs.

## 3. Ghosts in the universe

Do neutrinos hold the key to the antimatter-matter conundrum? These ghostly particles are all around us but can they unlock one of physics' great unsolved mysteries?

## 4. Life in a warming world

Join the Berkshire school group investigating the effect of climate change on freshwater ecosystems.

## 5. Hot stuff

Find out how harnessing radiation can be used for early cancer diagnosis and precision radiotherapy.

## 6. Quantum sensing the brain

Glimpse inside your brain with the quantum technologies providing cutting-edge insights into mental health.

## 7. Designer malaria vaccines

Malaria is one of the deadliest human diseases around. Can structural biology provide new hope for a vaccine against this killer parasite?

## 8. The measure of all things

The way we measure the world is about to change. Explore how the foundation stones of SI measurements are about to be anchored for good.

## 9. Where the wild things are

See how state-of-the-art hardware is giving conservation scientists unprecedented access to remote places.

## 10. Seeking life on Mars

The ExoMars Trace Gas Orbiter mission is hunting for clues to help scientists answer the ultimate question – is there life on Mars?

## 11. Progressive prosthetics

Uncover the quest to develop a prosthetic hand that looks, moves and feels like the real thing.

## 12. Atomic architects

Discover the 'sticky tape' technique making the creation of useful new nanoscale devices possible.

## 13. Material matters

Learn how 3D printing and the latest stem cell science can be used to produce the next generation of bone grafts.

## 14. Exploring the Universe with the Webb Telescope

Blast off into the invisible Universe with the new space telescope that's bigger and cooler than Hubble.

## 15. Mind the (nano) gap

Meet the scientists using nanotechnologies for pioneering applications in biosensing and healthcare.

## 16. Nurturing nature's innovations

See how bioinspired solutions to everyday challenges can come from the slimiest of sources.

## 17. Gaia: one billion stars in 3D

View the Milky Way in glorious 3D with the Gaia satellite which is revolutionising how we see our galaxy.

## 18. The random revolution

From cyber-security to gaming, can quantum physics create true randomness?

## 19. Guardians of the gut

Trillions of resident bacteria look after our gut health. But how should we look after them?

## 20. Not a dry eye in the house

Think blink! Staring at digital devices could be damaging our eyes' natural defences, but find out how research is coming to the rescue.

## 21. Soil: our buried treasure

Get hands on and dig deep as you discover the vital but vulnerable resource beneath our feet.

## 22. Code for creation

Meet Thomas, the supercomputer advancing the development of new materials from the atoms up.