

CELLebration

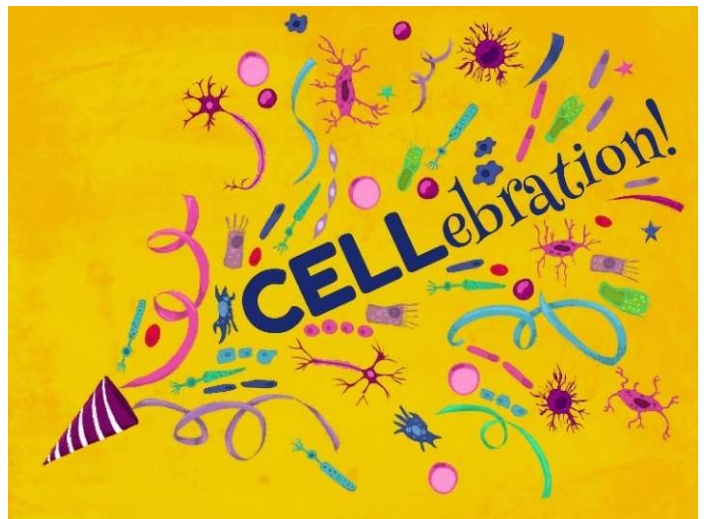
Step into the past, present, and future of cell biology with us, and explore how science and lab work continue to evolve over time. Challenge yourself with some hands-on laboratory-themed tasks in our Neuron Pod and become a cell biologist like those working in the labs below your very feet.

Due to specific on-site equipment needed for the show, CELLebration can only be experienced on-site at Centre of the Cell. This show is also best paired with our STEM Pod experience to see how our resident scientists put the skills you've been learning into action in active research.

Running time: 60 minutes

Maximum group size: 30 on site

Suitable for: Year 4 – Year 7



The show includes sections on the following:

1. What a cell is
2. The history of cell research
3. The current work being done in cell research
4. Future advances in cell research

Key stage 2 Science curriculum links

Working scientifically

Year 3 & 4

- asking relevant questions and using different types of scientific enquiries to answer them
- setting up simple practical enquiries, comparative and fair tests
- making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers
- reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions
- using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions
- identifying differences, similarities or changes related to simple scientific ideas and processes
- using straightforward scientific evidence to answer questions or to support their findings.

Year 5 & 6

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary
- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate
- using test results to make predictions to set up further comparative and fair tests
- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations

Key stage 3 Science curriculum links

Structure and function of living organisms

Cells and organisation

- cells as the fundamental unit of living organisms, including how to observe, interpret and record cell structure using a light microscope
- the functions of the cell wall, cell membrane, cytoplasm, nucleus, vacuole, mitochondria and chloroplasts
- the structural adaptations of some unicellular organisms
- the hierarchical organisation of multicellular organisms: from cells to tissues to organs to systems to organisms

