

Rolling Science plan 2020/2021

Aut 1 2020	Spr 1 2021	Sum 1 2021
Aut 2 2020	Spr 2 2021	Sum 2 2021

Aut 1 – 7 ½ weeks. Thurs 3/9 – Fri 23/10 (1/9 and 2/9 PD days) – **Oct Black History Month**

- 1 (2 days) What is science/transition tests
- 2 Planets/ Development of atmosphere
- 3 Climate change – maintaining/loss of biodiversity
- 4 Types of pollution – air, water, acid rain, oil spills etc
- 5 Drinking water – including filtration
- 6 Crude oil/fuels – **National space week, 10/10 World mental health day/homeless day**
- 7 cracking and carbon footprint
- 8 catch up, Entry level tests and/or GCSE practice

Aut 2 – 6 ½ weeks. Wed 4/11 – Fri 18/12 (2/11 and 3/11 PD days, 16/12 Parents eve)

- 1 (3 days) food chains/webs
- 2 Competition/ living and non-living factors – **World science day 10/11**
- 3 Decay + carbon cycle. – **anti-bullying/road safety week**
- 4 Adaptation –natural and artificial selection
- 5 Genetic material
- 6 Alleles and genetic crosses
- 7 Christmas, Entry level tests or GCSE practice

Spr 1 – 6 weeks. Tues 5/1 – Fri 12/2 (4/1 and 18/1 PD days) – **Feb LGBT+ History month**

- 1 (4 days) Plant cells (animal cell recap)
- 2 plant, animal and special cells
- 3 Photosynthesis what is it – Factors, rate etc
- 4 Healthy diet and lifestyle and **sexual health**
- 5 Investigating pulse rate + anaerobic respiration
- 6 Homeostasis

Spr 2 – 6 weeks. Mon 22/2 – Thurs 1/4 (2/4 UK bank hol, 31/3 Parents eve) - **March Women's history month**

- 1-2 Infectious diseases (**incl STI**), Bacteria, viruses and preventing spread
- 2-3 Vaccinations, medical drugs/testing new drugs, **drugs and alcohol**
- 4 Speed/braking distance + distance-time graphs
- 5 Acceleration, speed – time graphs – **22/3 World water day**
- 6 (4 days) Entry level tests and practical's/GCSE practice

Sum 1 – 6 weeks. Tues 20/4 – Fri 28/5 (19/4 Pd day, 3/5 UK bank hol)

- 1 (4 days) Magnetism – **22/4 Earth day**
- 2 Electromagnets and waves
- 3 Types of waves
- 4 Electricity recap – current and circuits
- 5 Wiring a plug – **17/5 international day against homophobia, transphobia and biphobia**
- 6 National grid and energy transfer

Sum 2 – 6 ½ weeks. Mon 7/6 – Tues 20/7 (21/7 PD day, 23/6 Parents eve) **Exams**

- 1 Acids and bases – **5/6 world environment day, 8/6 world oceans day**
- 2 PH Scale
- 3 Balanced symbol equations
- 4 Rate of reaction
- 5 investigating rate of reaction practical
- 6 catch up/hands on “fun” experiments
- 7 (2 days) End of academic year

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Aut 2 2020	Spr 2 2021	Sum 2 2021

Aut 1 – 7 weeks. Tues 7/9 – Fri 22/10 **Oct Black History Month**

- 1 (3 days) What is science/transition tests
- 2 what is the body made of
- 3 circulatory system
- 4 digestive system
- 5-6 reproductive system; sexual health, hormones, fertility and menstrual cycle – **10/10 world mental health day**
- 7 cell structure and transport in cells

Aut 2 – 7 weeks. 1/11 – Fri 17/12

- 1 states of matter and changes in state
- 2 mixtures and compounds
- 3 chromatography – **anti-bullying week and road safety week**
- 4 polymers
- 5 Atoms and the periodic table
- 6 atoms and radiation
- 7 Christmas, Entry level tests or GCSE practice

Spr 1 – 6 1/2 weeks. wed 5/1 – Fri 12/2 (4/1 and PD days) – **Feb LGBT+ History month**

- 1 Metals and alloys
- 2 Extracting metals
- 3 Recycling metals
- 4 Metals and acids
- 5 Link to Transfer of heat
- 6 entry level tests and GCSE practise

Spr 2 – 6 weeks. Tues 1/3 – Thurs 7/4 (8/4 PD day)

Feb Mathematics awareness month, March Women's history month, Exams

- 1 Types of energy
- 2 Transfer and conservation
- 3 Changes in energy stores - **11th -20th British Science week**
- 4 Energy efficiency
- 5 Forces
- 6 Forces etc Cont or GCSE Mocks

Sum 1 – 5 weeks. Mon 25/4 – Fri 27/5 (2/5 and 30/5 UK bank hol)

- 1 Magnetism – **22/4 Earth day**
- 2 Electromagnets and waves
- 3 Magnetic fields
- 4 -5 Longitudinal and transverse waves

Sum 2 – 7 weeks. Mon 6/6 – Fri 22/7 **Exams**

- 1 – **Drugs and alcohol**
- 2-3 Environmental Science – oil spills, volcanoes, fossils, rock formations
- 4 Exploring density
- 5 Considering sustainability
- 6 – Entry level and GCSE papers
- 7 – End of academic year activities