



SCIENCE ANNUAL CURRICULUM PLAN 2021/2022

WEEK	KS3	YEAR 10 Biology	Year 11 Biology (no students currently)	YEAR 11 Chemistry
1	What is an explosion?	How do the structures of eukaryotic and prokaryotic cells relate to their specific functions?	How can I revise effectively?	What are the smallest particles that make up everything around us? How are these arranged to create all the elements?
2	How can we create a bigger explosion?	How are different types of cell formed?	Structured revision	How do elements within the periodic table react? What are these trends and why do they react in this way?
3	How do we build a volcano?	How do cells know what functions to perform, and what to turn into?	Structured revision	What do we get when atoms react? Why we don't live in a universe of elements
4	What are fossil fuels?	What role do cells have in moving key substances from one place to another?	Structured revision	How is everything held together?
5	What are energy resources?	Do cells require energy to perform their functions?	Structured revision	What happens when we stick more things together?
6	Assessment week 1	Assessment Week 1	Assessment Week 1	Assessment Week 1
7	Review Week	Review Week	Review Week	Review Week
8	What is disease?	What are we made up of under different magnifications?	How can we stop spreading disease?	How do we figure out the perfect recipe for making new chemicals?
9	How can we prevent diseases?	How do scientists obtain the information needed to make the labels on the back of food packaging	Do we always need balance?	Is there a way to get more useful product out of a reaction without putting more in?
10	How can we protect ourselves?	Where does digestion begin in the human body?	What would happen if we did not scab?	Are survival games like real life? Can we dig any metal out of the ground in its pure form?
11	Are all microbes bad?	What is the real shape of our hearts? Why?	Does having an overacting endocrine system give us an advantage?	Can we combine deadly ingredients to make something safe? Can we do this the other way?
12	Assessment Week 2	Assessment Week 2	Assessment Week 2	Assessment Week 2
13	Is my diet ok?	Review Week	Review Week	Review Week
14	How do you know if you are fit?	If we could split our blood into it's ingredients, what would we find?	Why don't I look like my siblings?	Apart from physical products, what else can we get out of chemical reactions?
15	What are sound waves?	How do cells know what to become or how to form?	Can we design our children?	How do companies that use chemical reactions to make their products maximise their profits?
16	How much can we hear?	What is it that allows parts of our body to renew and regenerate?	Do humans still evolve?	What does it take to start a reaction? If we were looking under a microscope, what would we see?
17	What is stopping us?	We have all heard of cancer, but can anyone explain what cancer looks like at the cellular level to your body?	What aids survival more: the mind or the body?	What happens inside an oil refinery? How do we get from crude oil to hundreds of essential products that seem nothing like it?
18	What acids and alkalis do we have in the house?	What are plants made up of? Do they have levels of organisation (i.e. tissues and organ systems) or are they just made up of green stuff?	What's more useful: animal or plant products?	What is it about the structure of alkenes and alcohols that make them useful to us? Why is the process of polymerisation important?
19	Assessment Week 3	Assessment Week 3	Assessment Week 3	Assessment Week 3
20	Review Week	Review Week	Review Week	Review Week
21	What are food chains and webs?	Are we the same as the past?	Is there such a thing as friendly bacteria?	What does it mean to be pure?
22	How are we adapted?	Will my children look like me?	Is the cell membrane an organelle?	How can we test if something is pure?
23	How are we affecting our planet?	Will I look like my parents when I'm older?	What would happen without enzymes?	What was the world like years ago?

24	Student led topic	Are we all the same?	Will I inherit a disease?	How can we be more sustainable?
25	Assessment Week 4	Assessment Week 4	Assessment Week 4	Assessment week
26	Review Week	Review Week	Review Week	Review week
27	How did you figure that out?	How have we changed?	How dangerous is a sneeze?	How can we work scientifically?
28	How can we prove it?	Why do we change over the years?	Where does all our energy come from?	How can we work scientifically?
29	Have we done everything right?	What happens if an organism goes extinct?	How can we work scientifically?	How can we work scientifically?
30	What happens to them now?	What is biodiversity?	How can we work scientifically?	How can we work scientifically?
31	Assessment Week 5	Assessment Week 5	GCSE EXAMS	GCSE EXAMS
32	Review Week	Review Week	GCSE EXAMS	GCSE EXAMS
33	What is Nottingham famous for?	Who do we depend on?	GCSE EXAMS	GCSE EXAMS
34	What could you concoct from the meadows?	What affects our communities?	GCSE EXAMS	GCSE EXAMS
35	How was ibuprofen discovered?	How can we change?	GCSE EXAMS	GCSE EXAMS
36	What is the MRI?	How can we reuse materials?	GCSE EXAMS	GCSE EXAMS
37	What else are we proud of?	How can we help the planet?	GCSE EXAMS	GCSE EXAMS
38	Assessment Week 6	Assessment Week 6	GCSE EXAMS	GCSE EXAMS
39	Review Week	Review Week	GCSE EXAMS	GCSE EXAMS
40	How can we prepare for next year?	How can we prepare for next year?	GCSE EXAMS	GCSE EXAMS