



Venerable Bede CE Academy Long Term Curriculum Plan Subject: Science

Curriculum Intent: Through our curriculum, EVERY pupil is going to...

- **Develop** a love of learning, academic excellence and **perseverance** in a Christian context
- **Engage** in a wide range of opportunities in **joyful**, meaningful contexts to develop self-worth and mastery of knowledge and skills
- **Encourage** themselves and others to be aspirational and make **wise** choices so that they are prepared for life
- **Practise** equality of opportunity by valuing diversity, actively challenging prejudice and demonstrating **forgiveness** and **hope**

Year	Topic/Unit Title	Approximate Curriculum Hours	Assessment
Year 7	Introduction to Science lessons	3	None.
	Cells and cellular processes	8	2 LWL assessed pieces of work per topic, with a 50-mark exam sat in February.
	Substances and their properties	8	
	Energy	8	
	Biological systems for life	9	2 LWL assessed pieces of work per topic, with a 50-mark exam sat in June.
	Chemical changes	7	2 LWL assessed pieces of work per topic, with a 50-mark exam sat in June.
	Forces and fields	10	
	Organisms and environment	7	2 LWL assessed pieces of work per topic.
	Our Earth and atmosphere	6	
Matter and materials	6	2 LWL assessed pieces of work.	

Year 7 Homework Overview: Homework is set approximately once a fortnight on yellow paper.

Year 8	Acids	6	2 LWL assessed pieces of work per topic, with a 50-mark exam sat in February.
	Fluids	6	
	Food and Diseases	9	
	Periodic table	8	
	Energy Transfers	7	2 LWL assessed pieces of work per topic, with a 50-mark exam sat in June.
	Rocks	6	
	Sound and Light	7	
	Plants	7	
	Combustion, metals and materials	9	

Year 8 Homework Overview: Homework is set approximately once a fortnight on yellow paper.

Year 9	Key concepts in Biology	13	Assessed pieces of work on average every two weeks (in each of Biology, Chemistry and Physics) with a full assessment covering all aspects to take place around Easter.
	States of matter and separating substances	8	
	Motion	6	
	Health and disease	13	
	Atomic structure and periodic table	6	
	Forces / Energy	14	
	Cells and control	9	
	Bonding	10	
	Waves / Electromagnetic spectrum	14	
Year 9 Homework Overview: Homework is set approximately once a fortnight on yellow paper.			
Year 10	Genetics	12	Assessed pieces of work on average every two weeks (in each of Biology, Chemistry and Physics) with a mock exam paper sat at the start of the Spring term.
	Acids and alkalis	10	
	Radioactivity / Space	15	
	Natural selection	10	
	Calculations and electrolysis / Dynamic equilibria	25	
	Work and Forces	5	
	Homeostasis / Ecosystems	20	
	Fuels and Earth science	10	
	Electricity	10	
Year 10 Homework Overview: Homework is set approximately once a fortnight on yellow paper.			
Year 11	Ecosystems / Exchange and transport	14	Assessed pieces of work on average every two weeks (in each of Biology, Chemistry and Physics) with a mock exam paper sat late November or early December. Past papers used frequently during revision time.
	Periodic table, reaction rates and energy	10	
	Magnetism and electromagnetism	8	
	Plant structure and function	8	
	Hydrocarbons	10	
	Particles and matter	9	
	Key concepts review and revision	Remaining time	
	Qualitative analysis and revision	Remaining time	
	Key concepts review and revision	Remaining time	
Year 11 Homework Overview: Homework is set approximately once a fortnight on yellow paper.			