Science Year 7	**Curriculum intent:** The Year 7 curriculum will consolidate and build on the key themes studied at KS2. Students will study aspects of Biology, Chemistry and Physics (*listed below*), which have been carefully selected to build on prior knowledge. Opportunities to revisit key concepts through retrieval practice have been built into the curriculum as well as spaced learning and consolidation exercises in order to maximise retention of key knowledge. Whenever possible, knowledge and skills are acquired through the use of carefully planned practical activities with an emphasis on an investigative approach. Key skills will be developed with repeated practice. Students will develop understanding of key concepts and will be given the opportunity to demonstrate this in a range of different contexts.				
Rotation	**1**	**2**	**3**	**4**	**5**
Interleaving	Key knowledge from previously studied topics	Key knowledge from previously studied topics	Key knowledge from previously studied topics	Key knowledge from previously studied topics	Key knowledge from previously studied topics
Knowledge	HSW Organisms - Cells Organisms - systems	Matter - Atoms Energy - Food Energy - Transfers	Energy costs Genes - Puberty Genes – DNA and genetics	Reactions – chemical Reactions - separations Electric ity	Ecology Earth`s Structure Forces
Understanding	Apply knowledge in a range of different contexts. Opportunities to include: *Model cells* *Practical skills*	Apply knowledge in a range of different contexts. *Investigating the effect of temperature on diffusion* *Investigations into the energy in different foods*	Apply knowledge in a range of different contexts. Opportunities to include: *Explain how the human body develops*	Apply knowledge in a range of different contexts. Opportunities to include: *Distinguish between chemical and physical changes* Build electrical circuits	Apply knowledge in a range of different contexts. Opportunities to include: *Describe how organisms are interdependent* *Construct a labelled diagram to identify the processes of the rock cycle* *Describe how forces act on everyday objects*
Skills	Scientific Thinking Experimental Skills Analysis and Evaluation Scientific	Scientific Thinking Experimental Skills Analysis and Evaluation Scientific	Scientific Thinking Experimental Skills Analysis and Evaluation Scientific	Scientific Thinking Experimental Skills Analysis and Evaluation Scientific	Scientific Thinking Experimental Skills Analysis and Evaluation Scientific
Assessment	End of rotation test	End of rotation test	End of rotation test	End of rotation test	Science skills and key knowledge assessment