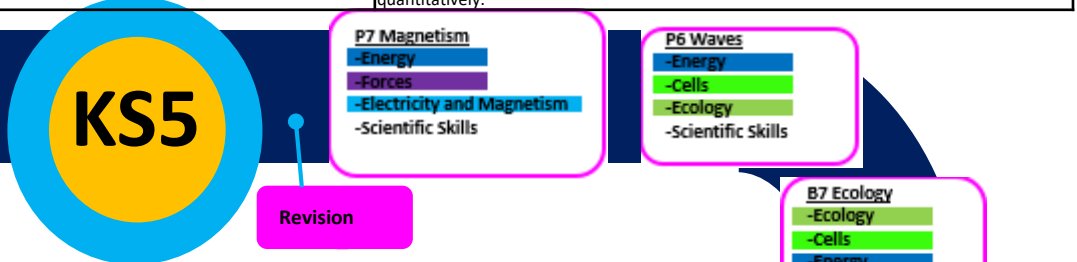




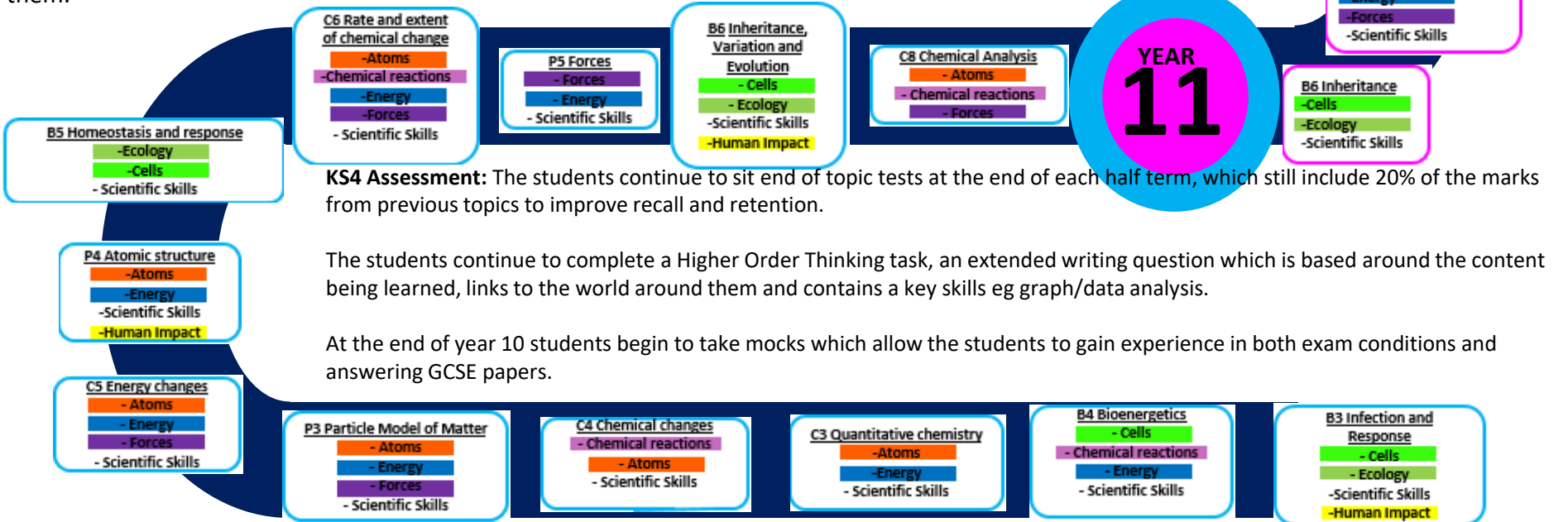
# William Edwards School Science Department Curriculum Journey

KS3 Goals	GCSE Goals
Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics;	Develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics;
Develop understanding of the nature, processes and methods of science through different types of science enquiries	Develop and learn to apply observational, practical, modelling, enquiry, problem-solving skills and mathematical skills, both in the laboratory, in the field and in other environments;
Help them to answer scientific questions about the world around them	Develop understanding of the nature, processes and methods of science, through different types of scientific enquiry that help them to answer scientific questions about the world around them;
Equip them with the scientific knowledge required to understand the uses and implications of science, today and for the future	Develop their ability to evaluate claims based on science through critical analysis of the methodology, evidence and conclusions, both qualitatively and quantitatively.

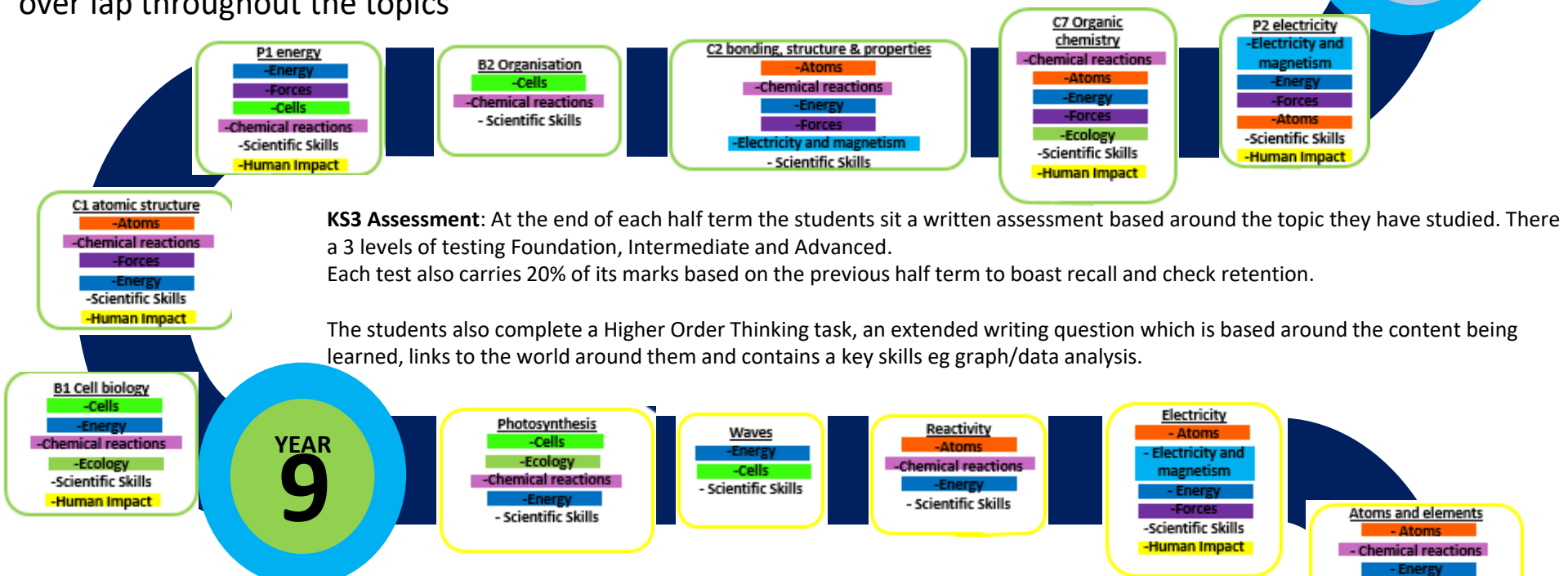
A Level	Diploma Level 1/2/3	Certificate Level 3	Btec Level 3
Biology, Chemistry, Physics, Engineering	Biomedical Science, Applied Science	Human Biology	Sport and Exercise Science



In KS4 the students deeper thinking and investigatory skills are developed further with the use of tasks based around analysis, explanations and justifications. Practical work is embedded throughout the topics, along with the continued links to their own live and the world around them.



The topics and content are not and should not be taught in isolation to each other, they share common ideas and concepts these commonalities have been grouped in the following categories are **Cells**, **Ecology**, **Atoms**, **Chemical Reactions**, **Forces**, **Energy**, **Electricity and Magnetism**, **Human Impact** and **Scientific Skills**. You can see where they overlap throughout the topics



In KS3 the students will be developing and building on the basic knowledge obtained in primary school. The content will contain more detail and the topics will not just allow development of theory knowledge but of practical lab work and problem solving. With the content consistently being linked to their own lives and the world around them.

