



KS4 Physics

Physics Assessment Map

Definition		Formative	Summative
		<p>Formative Assessment is defined within our assessment policy as the frequent interactive assessment of what students currently know and understand to identify learning needs and adjust teaching appropriately.</p>	<p>Summative Assessments are defined within our schemes of work to determine students' knowledge and understanding, to test the achievement of learning outcomes at the end of a specified period of study. They are assessments used to determine progression, indicate levels of achievement and predicted grades.</p>
Intent		<p>At Crompton House School, formative assessment is integral to everyday teaching. It has the needs of our students at its core (to build up confidence and reduce anxiety) and it is embedded into teaching activities within each lesson. Via the use of formative assessment approaches, low stakes testing and retrieval practice techniques, our aim is to be best prepared to help our students to embed and use knowledge fluently to improve long term knowledge retention, to meet all students' needs through differentiation and adaptation of teaching, and to achieve a greater equity of student outcomes.</p>	<p>The aim of summative assessment at Crompton House School is to help us to know our students better, to assess their potential and improve performance. Our emphasis is on measuring and evaluating student outcome by finding out what students already know, understand and can do, and then using the outcomes from our summative assessments to influence how we teach, plan improvements and identify struggling students. Our aim is a hand in glove relationship that exists between learning objectives, assessments and teaching.</p>
Timescales	Annual Implementation and Impact	<p>Formative assessment at Crompton House School supports students' progress towards learning of knowledge, concepts and skills by:</p> <ul style="list-style-type: none"> consistently monitoring students' developing knowledge, understanding, and skill related to the topic at hand in order to know how to proceed with instruction in a way that maximizes the opportunity for student growth and success with key content revisiting topics/concepts/skills throughout each year; this is a core focus of our teaching and homework policies; in applying low stakes testing, students gain a firmer grasp of knowledge so they can recall and apply this much later on actively involving students in the process of teaching and learning building students' skills for peer- and self-assessment helping students to understand their own learning, and developing appropriate strategies for 'learning to learn' <p>Our processes of effective formative assessment give teachers confidence in making judgement about the progress of their students. Our students, who are actively building their understanding of new concepts, who have developed a variety of strategies that enable them to place new ideas into a larger context, and who are learning to judge the quality of their own and their peer's work against well-defined learning goals and criteria, are also developing skills that are invaluable for learning throughout their lives. The little and often approach reinforces good habits and changes attitudes towards learning. Via frequent retrieval practice and low stakes testing, students will become more and more aware of what they are remembering.</p>	<p>If our students are not rigorously assessed, we would have no way to track progress throughout the year and no way to identify problems in time to correct them. We are therefore committed to the implementation of well thought out and carefully written summative assessments, which are directly linked to departmental schemes of work and PLCs (personalised learning checklists) in order to allow for an effective analysis of student strengths and weaknesses and evaluation of student outcomes.</p> <p>Our summative assessments will demonstrate results that reveal a degree of mastery and analysis of students' progress towards intended goals. The rigour of questions on each assessment, specifically aligning these to what is taught, will define the rigour of Crompton House, as a school, and in doing so, will determine what our students will achieve. We are focused on creating an environment in which each student is expected to learn at high levels and our summative assessments are written to require a rigorous demonstration of learning.</p>
		<p>Key strategies of effective formative assessment on a termly / half termly basis within KS4 Physics include:</p> <p>GCSE Physics students complete small tests at regular intervals consisting of questions from AQA GCSE Physics Exampro. For students sitting the higher tier Physics (8463) papers. These tests contain a range of question types including multiple choice, short and extended answer and practical based questions to accurately reflect the terminal GCSE exams.</p>	<p>Summative assessments are directly linked to PLCs and used as a means to assess the security and depth of understanding a student has attained against the key course content we have defined for them. They are consistent with departmental schemes of work and PLCs. They test the learning outcomes accurately and fairly and are capable of effectively differentiating levels of</p>

	<p>Interim Implementation (Termly / Half Termly)</p>	<p>For the current cohort of GCSE students (sitting exams in 2021, 2022), the order of delivery of the course and tests is as follows:</p> <p>Year 9 Energy efficiency Energy resources Wave properties Forces and their interactions Molecules and matter Electromagnetic waves</p> <p>Year 10 Graphs of motion Newton's Laws Stopping distance Electrical circuits Heat radiation Electricity in the home Radioactivity Space</p> <p>Year 11 Forces and Pressure Further light Pressure Electromagnetism</p> <p>The Summative assessment reported is based on the average from those tests completed before the reporting date.</p>	<p>student achievement where required. Summative assessments are teacher assessed and moderated.</p> <p>Year 10: Deadline for Summative Assessment 1: W/C 12th October Deadline for Summative Assessment 2: W/C 11th January End of Year Exams: W/C 21st June</p> <p>Year 11: Mock 1: W/C 2nd and 9th November Mock 2: W/C 22nd February and 1st March</p>
	<p>Weekly Implementation</p>	<p>Key strategies of effective formative assessment in action in hourly lessons within KS4 Physics include:</p> <ul style="list-style-type: none"> • Questioning to assess prior knowledge and understanding, embed new learning and cross curricular links. • Practical tasks and write ups – allowing for assessment of working scientifically skills, tables, graphs, making conclusions. • Peer and self-assessment of class work, including past GCSE questions. 	