

## **Science Assessment Map**

	Definition	<b>Formative</b> <b>Formative Assessment</b> 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.	Summative 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.
	Intent	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.	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.
Timescales	Annual Implementation and Impact	<ul> <li>Formative assessment at Crompton House School supports students' progress towards learning of knowledge, concepts and skills by: <ul> <li>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</li> <li>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</li> <li>actively involving students in the process of teaching and learning</li> <li>building students' skills for peer- and self-assessment helping students to understand their own learning, and developing appropriate strategies for 'learning to learn'</li> </ul> </li> <li>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 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.</li> </ul>	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. 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.

Interim Implementation (Termly / Half Termly)	approximately every 8-12 less consistent with departmental works (HSW) questions. They differentiating levels of ability • The foundation asse 40% NC Level 5 ques • The higher assessme Level 6, 7 and GCSE	first term for Year 9 students ons. These consist of exam st schemes of work and match test the learning outcomes ac as there are higher or found essment is made up of 60% of stions. ent is made up of 40% old Nat questions.	complete end of topic or half term cyle questions downloaded from Ex PLCs for each topic. The tests also i ccurately and fairly and are capable ation assessments available as follo d National Curriculum (NC) Level 3 tional Curriculum (NC) Level 5 ques	aly assessments campro and are include how science e of effectively ows: and 4 questions and stions and 60% NC	Summative assessments are directly linked to PLCs and u as a means to assess the security and depth of understan 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 student achievement where required. Summative assessments are teacher assessed and moderated. Year 7: Deadline for Summative Assessment 1: W/C 15 <sup>th</sup> January 2024 Deadline for Summative Assessment 2: W/C 22 <sup>nd</sup> April 20 Year 9:
			ecked by staff. The marks for these eadsheet. These tests are kept in fo		Year 8: Deadline for Summative Assessment 1: W/C 11 <sup>th</sup> Decemb
	For the academic year 2020_2				2023 Deadline for Summative Assessment 2: W/C 15 <sup>th</sup> April 202
	Year 7:				Year 9: Deadline for Summative Assessment 1: W/C 8 <sup>th</sup> January 2
	Autumn	Spring	Summer	7	Deadline for Summative Assessment 2: W/C 20 <sup>th</sup> May 202
	Transition test	Force and gravity	Energy costs and transfers		
	Variation and	Cells	Plant reproduction and		
	interdependence		acids and alkalis	_	
	Particle model and separating mixtures				
	Year 8:				
	Autumn	Spring	Summer		
	Healthy living, metals and	Photosynthesis	Earth's structure and	-	
	non- metals		Universe		
	Breathing and respiration	Waves and light	Sound, pressure and magnetism	_	
	Current, voltage and resistance				
	Year 9:				
	Year 9:				

Periodic table and types of
reaction
Chemical energy, work and
heating

Practical write ups are assessed through a number of investigations planned for formative feedback by teachers as follows:

Year 7	Year 8	Year 9
Variation hand span/foot	Breathing and heart rate	Isa Chemistry
size		
Microscopes	Respiration	Isa Physics
Red cabbage indicator	Metals and acids	Isa Biology
Filtration and evaporation	Mable run	Practical chemistry
Hooke's law	Ohm's law	Practical Biology
Model of sweat	Reflection	Practical Physics
	Electromagnets	

Literacy tasks are embedded in the scheme of work in the form of Big Writes and extended 6-mark questions as follows for year 7 and 8, to be peer assessed or teacher assessed, delivered as homework or classwork:

Торіс	Big Write	Long answer Qu
Variation and interdependence	✓	
Cells		✓
Movement		✓
Plant reproduction	$\checkmark$	
Human reproduction	$\checkmark$	$\checkmark$
Elements	$\checkmark$	
Particle model		$\checkmark$
Separating mixture		$\checkmark$
Contact forces and gravity	$\checkmark$	
Energy costs	✓	
	Variation and interdependence         Cells         Movement         Plant reproduction         Human reproduction         Elements         Particle model         Separating mixture         Contact forces and gravity	Variation and interdependence       ✓         Cells       ✓         Movement       ✓         Plant reproduction       ✓         Human reproduction       ✓         Elements       ✓         Particle model       ✓         Separating mixture       ✓         Contact forces and gravity       ✓

Year 8	Торіс	Big Write	Long answer Qu
Biology	Healthy Living	$\checkmark$	
	Photosynthesis	$\checkmark$	$\checkmark$
Chemistry	Metals and non- metals		$\checkmark$
	Universe	✓	$\checkmark$
	Earth's resources		1
	Climate	✓	
	Wave properties and light	✓	$\checkmark$
Weekly Implementation Mini plenaries Mini quizzes, tr	etween topics and other subjects (usually r asks and write ups allow both staff and stud conclusions. assessment of test, Big Writes and 6- mark address misunderstandings / progress checks throughout the lesson rue or false, bingo using key words using ex to support learning	dents to assess working s extended answer questic	cientifically skills, drawing ta