



## KS3 Science

# Science Assessment Map

Definition		Formative	Summative
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	<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"><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> <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>

**Interim  
Implementation  
(Termly / Half Termly)**

Key strategies of effective formative assessment on a **termly / half termly basis** within KS3 Science include:

For key stage 3 students will complete end of topic assessments, these consist of exam style questions and are consistent with departmental schemes of work and match PLCs for each topic. The tests also include how science works (HSW) questions. They test the learning outcomes accurately and fairly and are capable of effectively differentiating levels of ability as there are foundation support, support and extension papers available.

These are marked by staff and feedback given or self/peer assessed and checked by a teacher.

Literacy tasks are embedded in the scheme of work in the form of Big Writes to be peer assessed or teacher assessed, delivered as homework or classwork.

Year 7:

Big Write	
	1. Transition Assessment
Y - Animal Handling	2. Variation EoT
Y - States of Matter	3. States of Matter Big Write
Y - Mixtures - pure/impure	4. Particle Model/Sep mixtures EoT
	5. Speed and Gravity EoT
Y - Skeleton	1. Movement EoT
Y - Fossil Fuel Costs/radiation/insulation	2. Energy Costs and Transfers EoT
	3. Spring Assessment
	4. Cells EoT
Y - Chemical Reactions	5. Chemical Reactions Big Write
	1. Acids/Metals and non-metals EoT
Y - Evaluate Circuit models	2. Current, Voltage and Resistance EoT
	3. Summer Assessment
	4. Plant Reproduction EoT
Y - Menstrual Cycle/Fertilisation Journey	5. Human Reproduction EoT

**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 student achievement where required. Summative assessments are teacher assessed and moderated.

**Year 7:**

Deadline for Summative Assessment 1: W/C 10<sup>th</sup> January

Deadline for Summative Assessment 2: W/C 28<sup>th</sup> March

**Year 8:**

Deadline for Summative Assessment 1: W/C 6<sup>th</sup> December

Deadline for Summative Assessment 2: W/C 25<sup>th</sup> April

**Year 9:**

Deadline for Summative Assessment 1: W/C 18<sup>th</sup> October

Deadline for Summative Assessment 2: W/C 3<sup>rd</sup> January

Deadline for Summative Assessment 3: W/C 4<sup>th</sup> April

Year 8:

Big Write	
	1. Welcome to Y8 Assessment
Y - The eye	2. Light and Sound EoT
Y - Rock cycle	3. Rock Cycle Big Write
	4. Earth structure/universe EoT
	5. Breathing and Resp EoT
Y - Contact forces	1. Contact Forces EoT
	2. Spring Assessment
Y - Compounds	
Y - History of the periodic Table	3. Elements/periodic table EoT
Y - Food tests/Journey of food	4. Digestion EoT
Y - Climate change	5. Climate Change Big Write
Y - Extracting metals	1. Climate/Earths Resources EoT
	2. Summer Assessment
Y - Plant minerals	3. Photosynthesis EoT
Y - Electromagnets	4. Magnetism and EM EoT
Y - Genetic Modification	5. Inheritance EoT

Year 9:

Big Write	
	1. Welcome to Y9 Assessment
Y - Drugs	2. Health and Disease EoT
Y - Stress on solids	3. Work and Pressure EoT
	4. Types of Reaction/Chem Energy EoT
Y - Charles Darwin	5. Evolution EoT
	1. Spring Assessment
Y - TBC	2. Heating and Cooling Big Write
	3. Wonder of the natural world EoT
	4. HSW Investigation Write up
Y - Soundwaves	5. Waves EoT
	1. Fieldwork investigation Write up
	2. Summer Assessment
	3. Renewable Energy EoT
	4. Physics HSW EoT
	5. Wider Science project

	<p><b>Weekly Implementation</b></p> <p>Key strategies of effective formative assessment in action <b>in hourly lessons</b> within KS3 Science include:</p> <ul style="list-style-type: none"> <li>- Tiered verbal questioning (Bloom's) to assess prior knowledge and understanding, challenge new learning, and promote links between topics and other subjects (usually mathematics, chemistry and physics, PE).</li> <li>- Practise Questions – in lessons</li> <li>- Investigative tasks and write ups allow both staff and students to assess working scientifically skills, drawing tables, graphs, drawing conclusions.</li> <li>- Peer and self- assessment of test, Big Writes and 6- mark extended answer questions to reflect on their learning and red pen to address misunderstandings</li> <li>- Mini plenaries/ progress checks throughout the lesson</li> <li>- Mini quizzes, true or false, bingo using key words using exercise books or mini whiteboards</li> <li>- Wagolls given to support learning</li> <li>- Completion of now tasks</li> </ul> <p>· Homework</p> <ul style="list-style-type: none"> <li>• Research tasks for new topics/ ideas creation of posters and leaflets</li> <li>• Doodle progress quizzes</li> <li>• Homework Grids to extend prior learning</li> </ul>	
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