

Science (Biology, Chemistry and Physics) Homework Rationale

Key Stage	Low Stakes Quiz	Cultural Capital	Practice	Flipped	Frequency
3	✓	✓	✓	✗	Once a week
4	✓	✓	✓	✗	Once a week
5	✓	✓	✓	✓	At least once a week by both teachers
Subject	KS3 and KS4: Homework's can include:				
Homework Rationale	<ul style="list-style-type: none"> Low stakes quiz/revision sites like Tassomai/Seneca are used to help students consolidate knowledge and understanding of the concepts covered in the classroom both recently and in past learning (retrieval practice). Tassomai will form the bulk of the homework as the expectation (when Tassomai is in use) is that students will complete a minimum of 4 daily tasks per week, each taking between 10 and 20 minutes per day. Question/topics are set by a computer algorithm based on previous answers submitted by the student. Rationale: Tassomai interleaves topics and helps student develop long term recall of the key ideas and concepts needed to be successful in all 3 sciences. Tassomai claims that If students successfully complete 80% of the Tassomai course they are set to achieve nothing less than a grade 5 in their Science course. 				
	KS5: Homework's can include:				
	<ul style="list-style-type: none"> Printed/digital low stakes quiz/practice tasks may be provided for students to take and complete at home OR links to sites like Physics & maths tutor and BBC Bitesize will be provided so students can choose their own topics/questions. These will often be in the form of exam-style questions or past papers. We then use the mark scheme to mark the work Rationale: Students become familiar with the style of questioning they will encounter in exams/assessments, both internal and externally set. This work will also develop independence in students. They learn how to interpret the mark schemes and what the examiner is looking for in an answer. 				

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- Flipped learning tasks may be provided in which students read/research the topic to be covered next lesson and come with a summary of the key points along with questions they want answers to or are not sure of. **Rationale:** This is good for topics which are heavy on content and it reduces the risk of cognitive overload. It also promotes greater independence.
- Presentation preparation. Students will be asked to prepare a presentation to be delivered to the class next lesson along with a summary to hand out to other students. This is to develop students ability to present, a requirement of many post -18 courses and employment.