# Science KS3 Key Homework Tasks: Year 9

In science, pupils in Year 9 are taught biology, chemistry and physics topics by three separate teachers. Each teacher will set key homework tasks for their specific topics. POP Tasks (Point of Progress Tasks) are research-based tasks that are split up into a series of smaller questions which, when answered, will help pupils to answer the bigger question given at the top of the homework sheet. Revision tasks will take the form of a knowledge organizer containing key facts from the topic along with a set of questions to help with revision. Individual teachers may set additional smaller pieces of homework through out a topic to help learning and understanding. In the Spring Term pupils start Introduction to GCSE topics. We introduce them to the style of questions they will get at GCSE and so homework tasks will be different from those set during the Autumn Term.

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| **Autumn Term** | **Ecosystems 2:**<br>• Key Homework: POP Task A student jogs on the spot for two minutes. Describe the process of respiration and explain why the student breathes faster and has a faster heart rate after exercise<br>• Key Homework: Revision knowledge organiser | **Reactions 2:**<br>• Key Homework: POP Task Nathan says that burning any fuel contributes to climate change. Riana thinks Nathan is wrong. Who is right and why?<br>• Key Homework: Revision knowledge organiser | **Forces 2:**<br>• Key Homework: POP Task Describe the effects of friction on a bike tyre<br>• Key Homework: Revision knowledge organiser |
| | **Genes 2:**<br>• Key Homework: POP Task Why do you share some characteristics with your mother and some with your father?<br>• Key Homework: Revision knowledge organiser | **Earth**<br>• Key Homework: POP Task Igneous rock is formed from magma cooling on the Earth's surface. How does this rock end up as a sedimentary rock underneath the sea? Describe the stages of its journey and explain how it ended up in a different place.<br>• Key Homework: Revision knowledge organiser | **Waves 2:**<br>• Key Homework: POP Task Discuss ultrasound and its uses<br>• Key Homework: Revision knowledge organiser |
| **Spring Term** | **Introduction to AQA GCSE biology**<br>**B1 Cell Biology / cell division / transport**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice | **Introduction to AQA GCSE chemistry**<br>**C1 Atomic Structure and the Periodic Table**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice | **Introduction to AQA GCSE physics**<br>**P1 Energy**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice |
| | **Introduction to AQA GCSE biology**<br>**B1 Cell Biology / cell division / transport**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice | **Introduction to AQA GCSE chemistry**<br>**C1 Atomic Structure and the Periodic Table**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice | **Introduction to AQA GCSE physics**<br>**P1 Energy**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice |
| **Summer Term** | **Introduction to AQA GCSE biology**<br>**B1 Cell Biology / cell division / transport**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice | **Introduction to AQA GCSE chemistry**<br>**C1 Atomic Structure and the Periodic Table**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice | **Introduction to AQA GCSE physics**<br>**P1 Energy**<br>• Practice Booklets<br>• 6-mark questions<br>• Retrieval practice |