

## Y8 Homework – Science

	<b>Task</b>	<b>Virtues used</b>
<b>Half-term 1</b>	<p><b><u>Forces 1:</u></b> Task 1: POP Task Describe the motion of the skydiver at each stage of the jump Task 2: Revision knowledge organiser</p> <p><b><u>Earth and space 1:</u></b> Task 1: 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. Task 2: Revision knowledge organiser</p>	<p>Self-Regulation Confidence Resilience</p>
<b>Half-term 2</b>	<p><b><u>Waves 1: Light and sound:</u></b> Task 1: POP Task Compare the features of the ear and a microphone as systems that detect sound Task 2: Revision knowledge organiser</p> <p><b><u>Variation and reproduction 1:</u></b> Task 1: POP Task Describe and explain what happens when a sperm and egg meet to make a baby and reproduction Task 2: Revision knowledge organiser</p>	<p>Self-Regulation Confidence Resilience</p>
<b>Half-term 3</b>	<p><b><u>Matter 2:</u></b> Task 1: POP task Why is water different to its elements Task 2: Revision knowledge organiser</p> <p><b><u>Organisms 2:</u></b> Task 1: POP Task Why is the air we exhale different to the air we inhale Task 2: Revision knowledge organiser</p>	<p>Self-Regulation Confidence Resilience</p>
<b>Half-term 4</b>	<p><b><u>Energy 2:</u></b> Task 1: POP Task Use ideas about radiation to explain which material is best to make a parasol Task 2: Revision knowledge organiser</p> <p><b><u>Magnetism:</u></b> Task 1: POP Task Describe how an electromagnet can be used to pick up and move scrap metal from one place to another and explain why a permanent magnet cannot be used. Task 2: Revision knowledge organiser</p>	<p>Self-Regulation Confidence Resilience</p>
<b>Half-term 5</b>	<p><b><u>Reactions 2:</u></b> Task 1: POP Task Nathan says that burning any fuel contributes to climate change. Riana thinks Nathan is wrong. Who is right and why? Task 2: Revision knowledge organiser</p> <p><b><u>Ecosystems 2:</u></b> Task 1: 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 Task 2: Revision knowledge organiser</p>	<p>Resilience Respect and Responsibility Justice and Compassion</p>

<b>Half-term 6</b>	Task 1: Knowledge organiser to revise for end of year assessment	Self-Regulation Confidence Resilience
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Science is taught in specific topics and we aim to complete two topics per half term. However, depending on the pace of each topic and the time it takes to complete a topic, some homework tasks might carry over into the start of the next half term. This will be on a class by class basis.

key homework tasks are aimed at either consolidating the work through POP Tasks (Point of Progress Tasks) or Revision Tasks in preparation for the end of topic tests. Depending on the pace of each topic and the time it takes to complete a topic, some homework tasks might carry over into the start of the next half term. This will be on a class by class basis.

- POP 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 throughout a topic to help learning and understanding.