

Scheme of Work - Progression

Science

Year 7 / Sixième

Period 1	<p>How reliable are our senses ?</p> <ul style="list-style-type: none"> • Witness report - using technological tools to collect, sort and analyse data to draw the conclusion - interpretation is different for each individual <p>How precise are our senses ?</p> <ul style="list-style-type: none"> • Experimental work on the 5 senses to determine their reliability as well as their thresholds <p>Measuring : Heat and Temperature</p> <ul style="list-style-type: none"> • Evaluating temperature using senses and measuring instruments • Exploring scale, accuracy, precision, range and reliability
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Autumn – Mid-Term Holiday

Period 2	<p>Measurement Units and precision</p> <ul style="list-style-type: none"> • Exchanges between communities throughout history have favoured a harmonization of the different systems of units of measurement • International System of Units <p>The Design Process</p> <ul style="list-style-type: none"> • Constructing measuring instruments : measuring instruments will be built by the students
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Winter Holiday

Period 3	<p>Objects in the Universe</p> <ul style="list-style-type: none"> • Student driven research project • Encountering scientific tools that will allow them to locate themselves in time and space <p>Constructing a solar system</p> <ul style="list-style-type: none"> • Introduction to scales and scaling methods <p>Getting to know the planets and the gases</p> <ul style="list-style-type: none"> • Experimental approach will allow identification of the main gases that compose the atmosphere of different planets in our solar system
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Winter – Mid-Term Holiday

Period 4	<p>The evolution of Earth's atmosphere</p> <ul style="list-style-type: none"> • Developing conclusions based on evidence <p>Gas exchanges on Earth</p> <ul style="list-style-type: none"> • Practice the scientific method • Developing a critical eye toward experimental protocol and/or results <p>Ecospheres, from the past to the future</p> <ul style="list-style-type: none"> • Use acquired knowledge to project knowledge towards the future (space travel, colonisation of planets, ...)
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Spring Holiday

Period 5	<p>Discovering the Pyramids</p> <ul style="list-style-type: none"> • Evaluating recent theories about the construction of the pyramids • Student driven research <p>Properties of Construction Materials</p> <ul style="list-style-type: none"> • Experiment physical and chemical properties of rocks • Reflect on the reasoning behind the rocks used to build the pyramids <p>Lifting, Pushing, Pulling</p> <ul style="list-style-type: none"> • Explore the mechanical means necessary to transport blocks • Problems linked to their transportation and lifting
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