Scheme of Work - Progression

Science

Year 7 / 6ème

Period 1	**How reliable are our senses ?** • Witness report - using technological tools to collect, sort and analyse data to draw the conclusion - interpretation is different for each individual **How precise are our senses ?** • Experimental work on the 5 senses to determine their reliabliity as well as their thresholds **Measuring : Heat and Temperature** • Evaluating temperature using senses and measuring instruments • Exploring scale, accuracy, precision, range and reliability

Autumn – Mid-Term Holiday

Period 2	**Measurement Units and precision** • Exchanges between communities throughout history have favoured a harmonization of the different systems of units of measurement • International System of Units **The Design Process** • Constructing measuring instruments : measuring instruments will be built by the students

Winter Holiday

Period 3	**Objects in the Universe** • Student driven research project • Encountering scientific tools that will allow them to locate themselves in time and space **Constructing a solar system** • Introduction to scales and scaling methods **Getting to know the planets and the gases** • Experimental approach will allow identification of the main gases that compose the atmosphere of different planets in our solar system

Winter – Mid-Term Holiday

Period 4	**The evolution of Earth's atmosphere** • Developing conclusions based on evidence **Gas exchanges on Earth** • Practice the scientific method • Developing a critical eye toward experimental protocol and/or results **Ecospheres, from the past to the future** • Use acquired knowledge to project knoledge towards the future (space travel, colonisation of planets, …)

Spring Holiday

Period 5	**Discovering the Pyramids** • Evaluating recent theories about the construction of the pyramids • Student driven research **Properties of Construction Materials** • Experiment physical and chemical propertiesof rocks • Reflect on the reasoning behind the rocks used to build the pyramids **Lifting, Pushing, Pulling** • Explore the mechanical means necessary to transport blocks • Problems linged to their transportation and lifting