Year 5: Autumn 1

Learning Journey: Misson Control

Key Vocabulary

Astronomer: a scientist who studies stars.
Axis: imaginary line around which a body rotates.
Constellations: group of stars that make an imaginary shape in the night sky.
Cycles: a complete round or series.
Device: equipment or a mechanism designed to serve a special purpose.
Exploration: travelling for discovering.
Galaxy: group of stars, clouds of gas, and dust particles that move together through the universe.
Orbit: curved path which planets, satellites, or spacecrafts moves in circles around other bodies.
Planet: large objects (Earth) that orbit stars.
Satellite: artificial body placed in orbit to collect information.
Solar System: collection of planets, and their moons in orbit round the sun.

Why This? "Misson Control" is a thematic unit based around subjects of Earth and beyond, with a key focus on science and history. Children will learn about space exploration and discovery whilst developing knowledge and understanding of famous astronomers and astronauts. Children will learn about the sun, moon and earth, the movement of these relative to the solar system and the concept of day and night.

Why Now? Learners look at the Earth, Sun and Moon and their relationship to each other, before finding out more about space exploration and communication.

Assessment: Formative Assessment throughout the unit

Scientists

Skills

1. I can make predictions based on scientific knowledge and identify trends and patterns offering explanations.
2. I can recognise that the past is represented and interpreted in different ways and give reasons for this.
3. I can select information and provide sources. I can record data and results of increasing complexity using scientific diagrams, labels and classifications.

Knowledge

1. To know that the sun, moon and earth are approximately spherical bodies and the rotation of Earth causes day and night.
2. To know about famous astronomers, as well as significant worldwide astronauts.
3. To know about the development and role of satellite communication and space exploration and discovery.

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Artists

Skills
1. I can paint, test media and materials and mix appropriate colours.
2. I can paint demonstrating knowledge of primary and secondary colours, warm and cold, complementary and contrasting colours.
3. I can paint and create imaginative work from a variety of sources.
Knowledge
1. To know primary and secondary colours.
2. To know how to compare and comment on ideas, methods and approaches used in mine and other's work.

Designers

Skills
1. I can select from a wide range of tools and equipment to perform practical tasks to explore alternative ways of making a first product if first attempts fail.
2. I can plan what is required suggesting a sequence of actins and alternatives if needed, checking work as it develops and modify as necessary.
3. I can generate and clarify ideas for products considering intended purposes, drawing on and using various sources of information.
Knowledge
1. To know how to evaluate products, identifying strengths and areas for development and make appropriate changes.
2. To know how to choose how to communicate design ideas as they develop, considering use and purpose.

Musicians

Skills
1. I can improvise melodic and rhythmic phrases to help compose my own instrumental and vocal music.
2. I can compose from different starting points by developing ideas within musical structures.
3. I can identify relationships between sounds and how music reflects different intentions.
Knowledge
1. To know how to suggest improvements to my own and other's work. I know how to sing songs with increasing control of breathing, posture and sound projection.
2. To know to explore use of notation and ICT to support creative work and change/manipulate sounds.