

Topic: Mission to Mars

Year group: 6

Term: Autumn 2019/20

Starting point: NASA training day. Carousel of 4 activities to measure physical fitness.

End product:

Space Day. Chn use resources to create a gallery exhibit of their choice to showcase their learning during this Topic. Parents invited in at the end of the day to view the gallery.

VALUES:

Independent Isaac:

Independent, child led tasks to give the chn autonomy over their learning. Homework tasks to complete, in order to extend children's learning.

Creative Christoff:

Children encouraged to present and express their learning in a creative way. Creative links with Mars art and DT. Children encouraged to express their learning creatively with their homework tasks.

Resilient Ruby:

Children will develop their own resilience, while learning about the resilience of others, namely astronauts in training, and specific astronauts such as Tim Peake. Children will also be learning about how resilience is applied in the wider world by inspirational people.

Charlie Challenge:

Children will be challenged in all areas of their Topic learning, during lesson time, and in their homework. They will also be thinking about the way challenges come in the real world, and have to problem solve in real life contexts.

Teamwork Trio:

Children will be working as a team throughout the Topic, both in pairs, small groups and as a whole class.

British Values:

Democracy (Pupil Voice):

Ethics, law building for a new civilization on Mars.

Rule of Law (British Law):

Ethics, law building for a new civilization on Mars.

Mutual Respect (Respect):

Subject areas/cross curricular links:

Science:

Yr 5 Space objectives
Year 5 Forces objectives
See Science planning

D&T:

Creating 2D and 3D models of the body.
Designing a landing pad.

History:

Links to the moon landing to inspire the children for the Mission to Mars.

ICT:

Research purposes, presentation opportunities.

R.E:

Incarnation - Christianity

Art:

Drawing the moon: Using different mediums to try to accurately draw the surface of the moon: chalk, charcoal, white and black paint.

PHSE:

E safety, personal safety, environmental safety, and how to keep someone alive

English links:

Personal statement writing
Debate
Leaflet
Discussion texts
Diary entry

Maths links:

Recording measurements and presenting information on a graph.
Data handling
Measures relating to time (days, months,

MOTIVATION:

Children enjoy the activities, and get to work in pairs to complete challenges. Children learn how to take their heart rate to measure their

<p>fitness.</p> <p>Children want to create a gallery exhibit to present their learning back to their parents. Children have autonomy over their learning, and their work is valued and given purpose.</p>	<p>Links to respecting the planet and future generations.</p> <p>Tolerance:</p> <p>Lessons containing debate format will require children to have tolerance of one another and their opinions.</p>	<p>seasons)</p>
<p>What the children want to know:</p> <ul style="list-style-type: none"> • How big is space? • Is there life on other planets? • What are the most important planets? • How do we move to Mars? • Could we live on other planets? 		
<p>R.E. (See unit plan)</p> <p>Christianity - Incarnation</p>		<p>SEAL/PSHE/Citizenship: Safety (See unit plan)</p>

Subjects taken from New National Curriculum Objectives and Outcomes

Pupils will be taught:

- Explore the requirements of living things for life and growth.
- Explain that unsupported objects fall towards the earth because of the force of gravity acting between the earth and the falling object.
- Identify that humans and other animals have muscles and skeletons for support, protection and movement.
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- Describe the movement of the earth, and other planets, relative to the sun in the solar system.
- Use the idea of the earth's rotation to explain day and night and the apparent movement of the sun across the sky.
- Describe the movement of the moon relative to the earth.

Overview in weeks:

Week 1:

Phase 1: Training camp. Hook - Space Cadets training day. Children rotate around 4 activities.

Week 2:

Phase 1: Training camp. Theme: Why Mars?

Week 3:

Phase 1: Training Camp. Theme: Is the gravity different on Mars?

Week 4:

Phase 1: Training camp. Theme: Why do astronauts have to be carried out of the space shuttle after returning to Earth?

Week 5:

Phase 2: Journeying to Mars Theme: What is day and night like in space?

Week 6:

Phase 2: Journeying to Mars Theme: Why does the moon have different shapes? Will they look different from space?

Week 7:

Phase 2: Journeying to Mars Theme: What is life like in space?

****Half Term******Week 8:**

Phase 3: Mars One Project Theme: should we colonise Mars?

Week 9:

Phase 3: Mars One Project Theme: The final candidates!

Week 10:

Phase 3: Mars One Project Theme: How do you eat on Mars?

Week 11:

Phase 3: Mars One Project Theme: How do you eat on Mars?

Week 12:

Phase 3: Mars One Project Theme: Arriving on Mars!

Week 13:

Space gallery/ Parent presentation.