

Jennett's Park Creative Journey Planner YEAR.....5 TERM...Autumn

Empowering our children to flourish and achieve under God's love

Name of Unit: Space		
The Context (Why): To fully emerge the children in their writing, science and art. They thoroughly enjoy the space topic.		
<p>They need to know and understand:</p> <p>Science: Earth and Space</p> <p>Pupils should be taught to: ♣ describe the movement of the Earth, and other planets, relative to the Sun in the solar system ♣ describe the movement of the Moon relative to the Earth ♣ describe the Sun, Earth and Moon as approximately spherical bodies ♣ use the idea of the Earth’s rotation to explain day and night and the apparent movement of the sun across the sky</p> <p>Pupils should find out about the way that ideas about the solar system have developed, understanding how the geocentric model of the solar system gave way to the heliocentric model by considering the work of scientists such as Ptolemy, Alhazen and Copernicus.</p> <p>Pupils might work scientifically by: comparing the time of day at different places on the Earth through internet links and direct communication; creating simple models of the solar system;</p> <p>plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>recognise and control variables where necessary</p> <p>use test results to make predictions to set up further comparative and fair tests</p> <p>take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</p> <p>record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p> <p>report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>identify scientific evidence that has been used to support or refute ideas or arguments.</p> <p><u>Art</u></p> <ul style="list-style-type: none">improve their mastery of art and design techniques; drawingcreate sketchbooks to record their observations and use them review and revisit ideas	Educating for Wisdom, Knowledge and Skills	To help grow resourceful, resilient and reflective children who are equipped with the skills, knowledge and tenacity empower themselves, their learning throughout their lives.
	Educating for Hope and Aspiration	To inspire and enrich lives beyond current opportunities and experiences in order to open minds to the potential their future holds
	Educating for Community and Living Well Together	To be a multi-cultural, inclusive community of individuals loved by God who feel valued and involved where we create qualities of character to enable people to flourish.
	Educating for Dignity and Respect	That children might know how much that they are loved and valued by so that they might show dignity and respect for themselves and others by carefully and safely thinking through their actions.

Immersion Activity- What do they need to know? How are you going to start with a bang?

Make periscopes.

Planetarium visit- only not able to do due to Covid.

The Challenge or Big Questions

Is being able to explore space a good thing?

Will the world exist forever?

Without people becoming pioneers, is progress possible?

Real life context and links to Wider World (International/ Charity/ World of Work)

Black history month- how Katherine Johnstone contributed to the space race

Space Race and competition

Progress that has happened because of pioneers- treatment of black people and woman back in America in the 60s.

Activities (Possible Route of learning)

1 investigating shadows and the length and opaqueness of the shadow

2 fruit- representing solar system and orbiting

3 biography of Katherine Johnstone

4 Persuasive piece to visit their planet

5 Presentation on their planets they’ve researched

6

Trips/ Visits / Experiences

Planetarium visit

Experience- online astronomer

Challenge 10 activities

- Lecture
- Pictures to represent

Oracy Links

Debating skills- presentations

Questions- discussion

Vocabulary

Orbit, Heliocentric, Geocentric, Vibrant, Atmosphere, axis, rocky planet, gas planet, light years, kilometres, mass , gravity, solar system

Literacy, Maths and Computing Links

Graphs to represent shadow lengths

ICT- research on Katherine Johnstone, note taking.

Powerpoint presentations on planets.

Literacy links – writing and displays

How we will cover Owl Learning Behaviours and Rainbow Values in this journey

C - *Collaboration*

O - *Optimism*

P - *Perseverance*

P - *Pride*

I – *Independence*

C - *Challenge*

MD - *Managing Distractions*

♥ Love ♦ Honesty 🏴‍☠️ Respect 🕊️ Peace

👉 Forgiveness ⌚ Patience 🤝 Support

😊 Kindness & Joy

Home Learning Projects

Presentation on planets- research independently.

Preparation on what their own planet would contain- and why people would want to visit their planet.

Final Quality Products

Setting description on their planet

Persuasive article on why we should visit their planet

Biography poster on Katherine Johnstone

Science fiction story about their planet

How to Share and Celebrate Success

Make an orrery-

Everyone did presentations