Pilgrim Federation Curriculum Coverage Ideas and Resources for the Learning Theme: Space

EYFS	
Continuous provision will be in place throughout the learning theme based on PLODS (Possible Lines Of Development)	
Art & Design	**Computing**
Creating with Materials ELG Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form, and function Share their creations, explaining the process they have used - Make use of props and materials when role playing characters in narratives and stories. Use drawing, painting, sculpting to express ideas. Use a range of media to represent and make. To develop a wide range of techniques to express texture, colour, shape, form. Pattern and space. Range of artists and their work, comparing and describing, linking to own work. Pictures of gas giants from the Hubble telescope. There are the best examples of art inspred by outer space over the centuries. Giovanni di Paolo (1402-1482) Albrecht Durer (1471-1482) Etienne Leopold Trouvelot (1827-1895)	Use technology to support learning. Understanding how to program to make technological equipment work. Recognise use of technology outside of school – NASA Store and retrieve information.

Vincent van Gogh (1853 – 1890) Starry Night Lucien Rudaux (1874–1947) Edward Belbruno – to infinity and beyond!	
Design & Technology	**Geography**
Design – consider ascetics and functionality. Make – use a range of tools safely and effectively. Evaluate – test against criteria for purpose of design and judge. Adapt as necessary. Focuses could include rocket or spaceship design with links to science and flight. Design a space station – links to science, needs of humans and insulation. Design a solar system model with moving parts for demonstration of planetary movement around the sun. Design astronaut dishes – consider nutritional content and food with long life to design an astronaut's packed lunch – dehydrated foods. Make alien flying saucer Making rockets using sliders and levers.	Maps and aerial photography – e.g. pictures from the Hubble telescope Human features seen from space. Examining the globe and Earth's physical features from space e.g. oceans. Globe work. Seasonal weather patterns linked to the sun. https://www.fourmilab.ch/earthview/ https://www.jodrellbank.net/ https://www.darkskydiscovery.org.uk/dark-sky-discovery-sites/map.html

History	Music
Past and Present ELG Talk about the lives of the people around them and their roles in society; for example, Neil Armstrong, the first man on the moon. Know some similarities and differences between things in the past and now, drawing on their experiences and what has been read in class; what did astronauts wear in Neil Armstrong's time compared to Tim Peake or Helen Sharmer? Understand the past through settings, characters and events encountered in books read in class and storytelling; Lives of significant Britain's: Helen Sharmer Tim Peake. Sir Isaac Newton – Gravity Professor Brian Cox First Man on the moon: Neil Armstrong https://teachers.thenational.academy/lessons/who-was-neil-armstrong-cgrk6c Planets named after Greek Gods. How early civilisations used the stars Stars in the Bible	**See also Charanga Schemes of work** **Being Imaginative and Expressive ELG** Sing a range of well-known nursery rhymes and songs; Perform songs, rhymes, poems and stories with others, and – when appropriate try to move in time with music. Use voice creatively. Play tuned and untuned instruments. Experiment with and combine interrelated dimensions of music. Music focuses could include Holst's planet suite – focussing on instrument choice and tone to create mood and a vision in the mind's eye. https://www.youtube.com/watch?v=Isic2Z2e2xs&safe=active Space music https://www.youtube.com/watch?v=icgGyR3iusU&safe=active Hans Zimmer Interstellar https://www.youtube.com/watch?v=icgGyR3iusU&safe=active Doctor Who sound tracks – BBC Philharmonic orchestra etc. David Bowie – Space oddity Prodigy – out of space Babylon Zoo – spaceman Chris D Star Wars Sound Track ET Sound Track Guardians of the Galaxy Awesome Mixtapes 1 & 22001: Space

	Odyssey sound track Out of this world https://teachers.thenational.academy/lessons/space-session-1-6gt62d?from_query=space https://teachers.thenational.academy/lessons/space-session-2-60u6ce?from_query=space https://teachers.thenational.academy/lessons/space-session-3-ctgk0d?from_query=space https://teachers.thenational.academy/lessons/space-session-4-cgu3gd?from_query=space https://teachers.thenational.academy/lessons/space-session-5-cnj6cc?from_query=space https://teachers.thenational.academy/lessons/space-session-6-cmuk8t?from_query=space

Physical Education	Science
See also RealPE Schemes of work. **Gross Motor Skills ELG** Negotiate space and obstacles safely, with consideration for themselves and others. Demonstrate strength, balance and coordination when playing. Move energetically, such as running, jumping, dancing, hopping, skipping and climbing. Master basic movement. Participate in team games. Perform dances and sequences using patterns of movement. This could be topic linked if desired. Twinkl topic Space (Starry Nights) - Dance	**The Natural World ELG** Explore the natural world around them, making observations and drawing pictures of animals. Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. What is space? https://teachers.thenational.academy/lessons/what-is-space-6xhkcc?from_query=space How and when was space discovered? https://teachers.thenational.academy/lessons/when-and-how-was-space-discovered-cmv64t?from_query=space What kind of scientists study space? https://teachers.thenational.academy/lessons/what-kind-of-scientists-study-space-6mu68r?from_query=space Gravity The solar system – knowledge and understanding of planetary order and orbit. Links to seasonal change and changes in light. Lives and needs of humans – life after the earth, people surviving in space. Ecology and planetary changes. Everyday materials – understand the features of, compare and evaluate uses of materials – link to insulation work -spacecraft.

	Shelter on other planets – hot places, cold places, windy places etc. Oak National Academy resources: https://teachers.thenational.academy/units/space-c457?from_query=space
English	**Maths**
https://www.booksfortopics.com/space-ks1 **Fiction:** **The Comet by Joe Tod-Stanton (KS1)** https://www.youtube.com/watch?v=LNmPLQnhZ_o **Aliens Love Underpants by Claire Freedman (EYFS/KS1)** https://www.youtube.com/watch?v=ADnAGBWlzqE Hello, Star by Stephanie V.W Lucianovic & Vashti Harrison (picture book) – KS1 Astro Girl by Ken Wilson-Max (picture book) – EYFS/Y1 Toys in Space by Mini Grey (picture book) – KS1 – additional resources can be found https://www.teachwire.net/news/ks1-book-topic-toys-in-space/ The Marvellous Moon Map by Teresa Heapy (picture book) KS1 Fields Trip to the Moon by Jeanne Willis & John Harre (Picture book) – KS1 Beegu by Alexis Deacon (picture book) – Y2 Look Up! By Nathan Bryon & Dapo Adeola (picture book) – Y1 A Cat's Guide to the Night Sky by Stuart Atkinson & Brendan Kearney (picture book) – Y1 Laika the Astronaut by Owen Davey (picture book) – KS2 Suzy Orbit, Astronaut by Ruth Quayle & Jez Tuya (picture book) – KS1 Jasper: Space Dog by Hilary Robinson & Lewis James (chapter book) – Y2 The King & The Moon https://teachers.thenational.academy/units/the-king-and-the-moon-a75a Astrokittens: Cosmic Machines – Dominic Wallimann Professor Astrocat Series – Dominic Wallimann **Non-Fiction:**	Measure and scale (when using sky maps) Aliens that are different shapes and sizes. Also aliens with different number arms/legs/eyes/ antennae etc. Count number of stars/moons in 'space dust (flour/baby oil & glitter) Star constellations using sticky stars and chalk.

Here we Are: Notes for Living on Planet Earth by Oliver Jeffers https://oliverjeffers.com/books/here-we-are Little People, Big Dreams: Neil Armstrong by Maria Isabel Sanchez Vegara & Christophe Jacques – KS1 Little People, Big Dreams: Mae Jemison by Maria Isabel Sanchea Vegara & Janna Morton – KS1 Look Inside: Space by Rob Lloyd Jones & Bendetta Giaufret & Enrica Rusina (picture book) – EYFS/KS1 Meet the Planets by Caryl Hart & Bethan Woolvin (picture book) – KS1 Professor Astro Cat's Solar System by Dominic Walliman & Ben Newman – KS1 The Spacesuit by Alison Donald & Ariel Landy (picture book) Y2 Counting on Katherine by Helaine Becker & Dow Phumiruk (picture book) - KS1 Peep Inside Night-Time - Anna Milbourne Footsteps on the Moons – Chris Hadfield The Darkest Dark by Chris Hadfield (picture book) KS1 Women in Science – Adriana Ocampo **Song**: Twinkle, Twinkle Little Star **Poetry**: The Rubbish Tip – Pie Corbett Rocket Racers – Steve Webb Aliens Love Underpants – Claire Freedman The Dinosaur that Pooped a Planet – Tom Fletcher and Dougie Pointer Zoom Rocket Zoom! – Margaret Mayo Spaced Out - James Carter, Brian Moses & Various Poets **Drama**:	

Courageous Advocacy	Developing Spirituality
Use the text: Here we Are: Notes for Living on Planet Earth by Oliver Jeffers as a talking point for developing advocacy of what we have on planet Earth as well as positively contributing to society.	Be in awe about the creation of the universe and our place in it.

Other Ideas
Visit to a planetarium (or hire a planetarium to have in the school) North Norfolk Astrological Society https://nnas.org/ Dark Skies initiative NASA – https://www.nasa.gov/mission_pages/station/main/index.html **Dark Skies –** https://www.darksky.org/ Stargazing https://www.bbc.co.uk/teach/class-clips-video/little-stargazing/zdys92p CBeebies – Stargazing https://www.bbc.co.uk/cbeebies/topics/space https://www.bbc.co.uk/cbeebies/shows/stargazing Role play area – space ship, rocket, crashed spaceship, inside rocket module. EYFS Space https://teachers.thenational.academy/units/space-7230?from_query=space **YouTube videos:**

Rocket Launch
https://www.youtube.com/results?search_query=rocket+launch+for+kids

Virtual journey through space
https://www.youtube.com/watch?v=m1EBHOmXSqA

https://www.youtube.com/watch?v=MkRSmynqonM

Astronaut loses tool box in space
https://www.bbc.co.uk/newsround/67402058