Space - The Final Frontier

Troon School Bloom's homework: Six Thinking Levels

	Verbal / Linguistic I enjoy reading, writing & speaking	Mathematical/Logical I enjoy working with numbers & science	Visual/Spatial I enjoy painting, drawing & visualising	Body / Kinaesthetic I enjoy hands-on activities	Musical / Rhythmic I enjoy making & listening to music	Interpersonal I enjoy working with others	Intrapersonal I enjoy working by myself	Naturalist I enjoy caring for plants & animals
Knowing (1)	Brainstorm and list at least 12 space words. Provide definitions for each. Try to list words that you may not have encountered before.	Create a table or a spreadsheet showing the distance of each planet from the sun. Title it to make it very clear.	Create a picture of what you see in the sky during the day and night.	Write up a short role-play of the first astronauts going on the first expedition into space. Perform this role-play to the class.	Make up two verses of a poem, song or limerick using vocabulary about space.	Find and read two picture storybooks about space. Write a book report on each. Choose your favourite story of the two and read to the class.	List and draw 10 useful things you would take into outer space and justify why you would take them.	On your planet there is not much water. List and explain in detail 10 strategies that you could use to conserve water.
Understanding (2)	Write a factual report about a planet of your choice. Consider how you will present your report.	Explain why, if you are 11 years old on earth, you would be 46 years old on Mercury and less than one year old on Pluto	Create a diagram labelling in detail the parts of the earth.	Research the effects space has on your body. Write a report / mini project detailing this information.	Write a pan for a play called "The Space Odyssey". It must include all arrangements including props, cast, sets, costumes, music etc.	Write a realistic timetable outline what astronauts would do every hour over 7 days on the I.S.S. Include all the activities and information required.	Describe feelings of being the first person to discover life on another planet. (minimum 1 page)	Make up a menu for Major Tim Peake for a week. Explain and justify why you chose these foods. Think about packaging, containing and preserving issues.
Applying (3)	Write a letter of application for a job to NASA justifying why you should be chosen as a Space Scientist. (Minimum 1 page)	Create a model and explanation of how the earth spins on its axis as it orbits the sun.	Create a space mural – use black paper. Add space pictures. Attach space facts to the mural.	Learn about astronaut training. How do astronauts exercise in space? Create and implement an astronaut fitness program.	Simulate outer space sounds. Make a dialogue of a scene and include the appropriate sounds.	Identify the contributions made by various countries in early space flights. Make a brief timeline including relevant information.	Research and record changes in space travel. Make a timeline of events.	You live on a space station. Space is limited and you still produce wastes. Write a report to management on methods of waste reduction, removal and recycling.
Analysing (4)	Create a biography about a space explorer (Yuri Gagarin, Neil Armstrong), and what they discovered on their expeditions.	Work out your weight on each planet.. Hint: - consider the gravity of each planet.. Graph your results and write a report on the comparisons.	Design a new space suit for a planet. Be sure to label it clearly and explain its functions	Prepare and group questions on space for a class "Sale of the New Century". Have multiple choice answers.	Compare and contrast two planets attributes using a call and response rap format. You can create a Venn Diagram to help plan.	Research and write a mini report on wormholes, super twisters or black holes.	Complete a postcard describing your experience of travelling near one of the planets.	Design a machine / system to collect and recycle space waste.
Designing (5)	Write an advertisement selling holidays to Mars. Make sure that you include presentation skills, descriptive words and information about the advantages of holidaying in Mars.	Design and create an unmanned craft that can explore and collect data on a planet in our solar system. Consider how it might move and land on that planet.	Design a space station to be based on a planet. Evaluate each planet and come up with a recommendation about which would be the best planet on which to establish the base.	Construct a space diorama. Include planets, earth, features of the sky.	Create a national anthem for aliens that live on Saturn.	Create an advertising campaign including poster, logo, jingle and speech to promote a star consolation.	Create an Intergalactic Passport. Include: the planet you are from, drawn photo, personal details, stamps from planets you have visited.	Create a speech to give to people from another planet. The aim is to teach them how to become more environmentally friendly. Present your speech to the class.
Evaluating (6)	Create a speech about why we need to consider living on planets other than Earth.	Make an information space wheel with a wedge chopped out that can spin around and reveal mathematical information about 6 planets.	Evaluate the likelihood of colonisation of another planet. Think about the advantages and disadvantages for the human race if Mars or another planet were inhabitable.	Create a script of an interview between a journalist and a famous space scientist e.g. Copernicus, Galileo etc.	Create a newscast of the first landing on the moon. Include Neil Armstrong's speech. Then make your own speech.	An alien captures you and tells you it is going to blow up earth. Create a list of arguments to convince him to blow up a planet other than earth.	View four websites on space. Create a report to evaluate and rank according to: content, presentation, ease of access, links to other sites. Reference the sites you visited (URL) .	Create a report to justify the benefits of setting up a city in space. Consider the environmental impact on both earth and outer space.

Instructions for the Blooms Project: The project will run from Thursday 22nd October to Friday 11th December. Children complete tasks at home and bring them to school to share with their class. The aim is to try a range of tasks so please encourage them to try different styles of learning. A maximum of 3 tasks from any one vertical row. The marks are guidelines - teachers can decide to award any marks up to the guidelines with bonus marks for exceptional work!

Parental support is encouraged; some of the tasks will require it! If the product is eaten or not able to be brought in, a photo will suffice as evidence! Try to complete one task per week. Certificates will be awarded at three levels: 10 Points or more = Bronze, 20 points or more = Silver, 30 points or more = Gold.

The Blooms project is a proven technique for improving children's thinking skills, thank you for your continued support.

We are really looking forward to the results!