



# Space Explorer

*Three weeks of outer space fun for the activity badge.*

## How to earn the badge

1. Find out what Earth looks like from space; the shapes of the continents, oceans, forests and cities.
2. Discover what makes our planet special and how it helps humans, animals and plants survive. You could look at the Sun, the Moon, and the atmosphere of the planet.
3. Find out what it's like living on the International Space Station.  
How do they complete daily tasks, brushing teeth, or making something to eat?
4. Explore how different types of rockets have been used to get people and objects into space.
5. Explore the planets in our solar system. Find out how they are different to each other and to Earth.



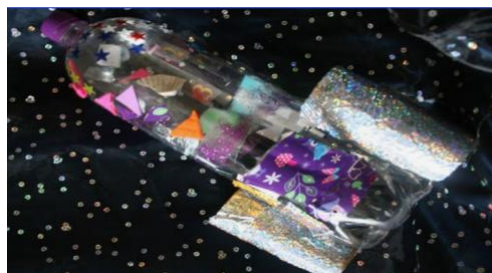
## Programme Planner – Week 1

|          |                                          |
|----------|------------------------------------------|
| Arrival  | Colouring - Spaceman                     |
| Story    | The Planet Plundering Pirates            |
| Activity | Phases of the Moon Biscuits<br>Moon Film |
| Activity | Space Top Trumps                         |
| Game     | Spaceman's Coming                        |

## Programme Planner – Week 2

|          |                              |
|----------|------------------------------|
| Arrival  | Colouring - Planets          |
| Activity | Block Rockets<br>Planet Film |
| Activity | Planet Ball                  |

|                            |
|----------------------------|
| <b>Shopping List:</b>      |
| Paper Plates               |
| Biscuits (4 each)          |
| Icing Sugar                |
| Building Blocks            |
| Sticky Tape (lots)         |
| Scissors                   |
| Cola Small & 2ltr Bottles  |
| Mento Sweets               |
| <b>Printing:</b>           |
| Colouring Sheets           |
| <b>From District:</b>      |
| Top Trump Games            |
| Planet Balls               |
| Projector (use own laptop) |
| <b>Prep:</b>               |
| Download the films         |



## Programme Planner – Week 3

|          |                                                                        |
|----------|------------------------------------------------------------------------|
| Arrival  | Colouring - Rockets                                                    |
| Activity | Junk Model Rockets and Space Stations<br>Rocket and Space Station Film |
| Activity | Coke and Mento Rockets                                                 |

## How to run each part of the programme:

### Phases of the Moon Biscuits

**Prep:** Mix the icing into a firm liquid.

**Introduction Talk:** The Moon is the only natural satellite of the earth.

The Moon is 400 times smaller than the Sun and also 400 times closer to the earth than the Sun.

**How:** Using the information sheet as a guide, make some images of the phases of the Moon using biscuits and icing. Display on a paper plate, making sure you name each plate.

### Spaceman's Coming

**How:** Participants all take part in a "follow-the-leader" game and moves slowly around the room. Explain the moves before starting the game.

When different space commands are given by the adult, everyone must move in the following special ways:

**Spaceman's coming** - Everyone must freeze and pretend to float in slow motion.

**Comet's coming** - Everyone crouch down low and wiggle their arms behind them like a tail.

**Alien** - Everyone make a silly face and put two fingers on top of their head like antennae.

**Blast off** - Everyone jump up high and shape their arms into a rocket triangle over their heads.

**Meteor shower** - Everyone must quickly dive to the floor and cover their heads.

### Block Rockets

**How:** Participants all create their own rocket using Duplo or similar Mega Blocks. Everyone stands their rocket on the "Space Station" table.

### Planet Ball

**Introduction Talk:** *The solar system consists of eight planets orbiting the Sun: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, and Neptune, they are categorized into four inner terrestrial rocky planets and four outer giant planets (gas and ice).*

*These planets vary in size, composition, and distance from the Sun.*

**How:** Participants stand in a circle.

Explain that a planet ball is going to pass across the circle so that everyone catches the ball once (to help this everyone will hold up a hand until they have caught the ball once) and everyone must remember who they passed the ball to and who passed the ball to them.

The ball must be thrown under-arm.

Once everyone is familiar with the "pattern" more planet balls are added to the game.

The aim is to play with all eight planets!

### Junk Model Rockets

**Prep:** Ask all Participants to bring a bag of clean recycling to the meeting.

**How:** Participants make models of Rockets using rubbish and sticky tape, making sure adults are helping when using scissors.

### Coke and Mento Rockets

**Prep:** Watch this video for instructions ahead of the meeting:

<https://www.youtube.com/shorts/fh5Zg1i47q0>

**How:** Participants stand to watch the demonstration outside of the building. Only adults place the sweets into the bottle and then move to stand clear.

### The Films

**Prep:** Download the following YouTube films:

Moon: <https://www.youtube.com/watch?v=kJkVegBsNyE>

Planets: <https://www.youtube.com/watch?v=ya6Ko9bF5v8>

Rockets: <https://www.youtube.com/watch?v=y0pmx1oUyJ0>