

LKS2 – Assembly Plan 2

Could we ever live on another planet?

What would humans need to live somewhere other than Earth?

Preparation:

- Images of Mars, Moon bases, space habitats
- Short video clip or animation of humans on Mars (NASA/ESA kids videos)
- Printable “life support” icons: water, food, air, shelter, etc.
- Optional: Red-coloured torch and dust for “Mars effect”
- Soft space-themed music (e.g. The Martian soundtrack or ambient space sounds)

1	<p>Welcome and Introduction (3 minutes):</p> <p>Ask: “Would you like to live on another planet one day?”</p> <p>Say: “Today, we’re thinking BIG — not just exploring space, but asking: Could we ever live on another planet?”</p>
2	<p>Example 1 – What’s it like on other planets? (5 minutes):</p> <p>Introduce Mars — the planet scientists believe we might visit soon.</p> <p>Explain:</p> <ul style="list-style-type: none">• Mars is dusty, dry, and freezing cold• There’s no air we can breathe• BUT... it has seasons and ice! <p>Ask: “Do you think it sounds like a good place to live?”</p>
3	<p>Example 2 – What would we need to survive? (5 minutes):</p> <p>Show images/icons of essentials:</p> <ul style="list-style-type: none">✓ Air✓ Water✓ Food✓ Shelter✓ Power✓ Protection from radiation <p>Say: “We’d need to build all of these before we could live safely.”</p>

4	<p>Example 3 – What scientists are working on now (5 minutes):</p> <p>Explain that space agencies (like NASA and ESA) are:</p> <ul style="list-style-type: none"> • Testing robots to build homes • Designing space greenhouses • Exploring how to make water from ice • Even thinking about growing food on Mars! <p>Ask: “Would you like to help design a Mars home?”</p>
5	<p>Interactive Moment (6 minutes):</p> <p>Explain that space agencies (like NASA and ESA) are:</p> <ul style="list-style-type: none"> • Testing robots to build homes • Designing space greenhouses • Exploring how to make water from ice • Even thinking about growing food on Mars! <p>Ask: “Would you like to help design a Mars home?”</p>
6	<p>Optional Inspiring Video (4 minutes):</p> <p>Play a short animation of astronauts exploring Mars or a concept clip of a Mars base. (E.g. NASA’s “We Are the Explorers” or ESA’s Mars Mission concepts)</p>
7	<p>Conclusion (3 minutes):</p> <p>Summarise:</p> <ul style="list-style-type: none"> • Living on another planet is possible — but not easy • Scientists are working on solving BIG problems • You could be part of that future! <p>Say: “The next Mars explorer might be in this room today!”</p>

Reflection

Ask children to close their eyes and imagine waking up on Mars.
What would they see outside? What would they miss about Earth?

Music

The Martian soundtrack (light instrumental)

Holst – The Planets: Mars

Cross-Curricular Links:

Science: Habitats, space exploration, environmental challenges

Geography: Compare Earth and Mars

DT: Design a Mars base or life-support system

English: Write a letter home from another planet