

# Our Solar System

## Session 6

TIME

90 min.  
including  
break



Art of learning

THEME  
19



### WARM-UP: "AYE, AYE SPACESHIP CAPTAIN" – FREE CHOICE MISSION

|                                   |   |
|-----------------------------------|---|
| <b>This will happen:</b>          | The students embark on a further space mission and follow orders from their captain.  |
| <b>Materials needed:</b>          | T19 Warm-up spaceship music reverse (resource bank). Use masking tape to create a spaceship outline on the floor. Music player.                                 |
| <b>Preparations in advance:</b>   | Listen to the T19 Warm-up spaceship music in reverse. Make a spaceship outline on the floor with masking tape.  |
| <b>Preparations in the space:</b> | Check that the sound system works. Create a spaceship on the floor with masking tape (with room for the whole class to stand together with room to spread out). |
| <b>The space looks like this:</b> | Open space.   |

#### GUIDANCE:

1. The adult is the 'Spaceship Captain' and the students are astronauts. Explain that they are going on a space mission in their spaceship. The adult brings the Golden Chest and asks everyone to line up and then step into the spaceship. The Spaceship Captain stands at the BACK of the spaceship so the astronauts can only hear their voice and they can't see any of their movements (see after part 3.)
2. In the space rocket, the Captain says, "Briefing". Ask the students where they would like to go on this final mission. Those who don't want to make a suggestion, squat down. Choose a mission from the students' suggestions.
3. Ask the students for suggestions for new commands, select some to practice and then use them along with other familiar commands in the main part of the warm-up.
4. Say, "Astronauts" and wait for students to answer "Aye, Aye Captain!" and bring the back of their hand up to their forehead and stand up straight.
5. Say, "We are ready for take-off" – students put on fictional helmets and get themselves in the starting position. Continue with the commands as previously.

Variation: Play the warm-up in reverse (T19 Warm-up spaceship music reverse) and then launch the spaceship. Ask if they can make the movements backwards? Say the commands backwards?

### REFLECTION: SOLAR SYSTEM QUIZ – FREE CHOICE FOR QUESTIONS AND ANSWERS (FROM ALL THE ALTERNATIVES AVAILABLE)

|                                   |   |
|-----------------------------------|---|
| <b>This will happen:</b>          | Students use reflection cards to show answers to statements about our solar system. |
| <b>Materials needed:</b>          | T19 reflection card – one set for each student                                      |
| <b>Preparations in advance:</b>   | Prepare questions and answers.  |
| <b>Preparations in the space:</b> |   |
| <b>The space looks like this:</b> | Classroom.  |

#### GUIDANCE:

Open the Golden Chest. Hand out a set of reflection cards to each student. Explain that some statements will be read out and that students need to listen carefully. They should choose to answer with one of the cards (as confirmed by the adult). Count up to five. When it gets to five, the students should hold up the card they think is correct.

Ensure that not all statements have one correct answer, but that the quiz makes space for different opinions and experiences to emerge.

#### NOTES

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### FREE CHOICE SESSION 6. SUGGESTED ACTIVITIES:

The adults should decide where the final session should land!

Suggestions include:

- Do further work with scale and comparison of sizes and quantities, or measurement of length – starting with the Solar System.
- Philosophical questions: follow up on the philosophical questions from the reflection quiz:
  - Where does the world come from?
  - How big is space?
  - How and when did the Sun and the Solar System appear?
  - Is there life on other planets?
  - How big is a human?
  - In the bigger context of the Solar System how important are human beings?
- Watch this animation! The Scale of the Universe 2 <https://htwins.net/scale2/>

htwins.net



- Continue to explore the topic 'Life on other planets' 2 suggestions to consider are given below:
  - 1) Explore Voyager which is a space ship that was sent out into space. It broadcasts music and the voices/ languages of people from different places on Earth
  - 2) Explore Europa which is a moon that orbits Jupiter. It is widely considered to be the best candidate for hosting life as we know it in this Solar System. It contains a lot of salt water, just like the Earth and is 5 times larger than the Earth.
- Explore space travel with space shuttles, satellites, space stations and space rockets.
- The international space station.

Vocabulary: Weightlessness, pen friend language expressions.

How to cook in space? How to wash your hair in space? How to go to the bathroom in space? (See proposed video clips in T1906 Proposal)

Videos from spacecraft, spacecraft:

- (1) Astronauts: How to wash your hair in space? <https://www.youtube.com/watch?v=kOlj7AgonHM>
- (2) Astronauts: How do astronauts eat and drink in space? <https://www.youtube.com/watch?v=8R7cOISkay0>
- (3) Brushing teeth in space: <https://www.youtube.com/watch?v=3bCoGC532p8>
- (4) Going to the bathroom: <https://www.youtube.com/watch?v=5WSIGRBTFNI>

youtube.com (1)



youtube.com (2)



youtube.com (3)



youtube.com (4)



- Stellarium: Digital planetarium with the ability to explore the planets and the universe. Stellarium Web. See what planets they can see at night from school. See what constellations they can see.
- The Moon is the only place in the Solar System (other than Earth) that humans have actually visited. Explore missions to the Moon.
- See other ideas for activities in the AOL own Solar System board on Pinterest: <https://pin.it/2Fpxy50>

Pinterest



- Ask students to work on creating the questions for the Solar System quiz.

NOTES