

Teacher Notes (Lower Key Stage 2)

Zach chats to Tamela the Space Scientist



Tamela is an Astrophysicist. Astrophysics is the study of how stars and planets work, and how we can learn about them. Astrophysicists explain what astronomers find and see. Astrophysics is also the study of how the Universe started.

Other related jobs:

Science Professor / Teacher
Research Scientist
Astronomer

Astronaut
Mission Planner
Robotics Engineer



Guided Reflection – to structure a conversation after the film



- ☐ What was the most interesting thing you found out from Tamela?
- ☐ What did you like about Tamela's job?
- ☐ What would you enjoy most about Tamela's job and what would you find most difficult?
- ☐ What have you learnt about being a Space Scientist?
- ☐ How might you go about becoming a Space Scientist?



5
mins

Discover & Do Activities – to run alongside the Discover & Do printed worksheets

Activity 1 – Were you listening carefully?



10
mins



In this activity, pupils apply Steps 2 and 3 of Listening from the Skills Builder Framework.
Listening Step 2: I can listen to others and ask questions about what I heard.
Listening Step 3: I can follow a conversation and tell somebody else what it was about.

Share the definition: "Listening is the receiving, retaining and processing of information or ideas".
Using the Discover & Do worksheet, ask pupils to:

- ☐ Write down 3 questions they would ask Tamela
- ☐ Tell a partner what they recall from the conversation

Activity 2 – Mission to Mars



15-20
mins

In this activity, pupils will decide which five items they will take on a 12-month mission to Mars.

Explain to your pupils that they have been selected to go on a 12-month mission to Mars. As space is limited, give pupils 4 to 5 minutes to decide on the items they would like to take along. They can write or draw their ideas in the space provided.

Discuss some of these ideas as a class. Then, challenge your pupils to work with a partner to combine their ideas and decide on the 5 most important items to take on a mission to Mars. Encourage them to discuss their reasoning with their partner, to listen to each other and to problem-solve by considering the pros and cons of each item.



Reflection Question: What do you think a space scientist will miss from Earth?

Activity 3 – Create your own spaceship, space station or satellite



Extended
project

In this activity, pupils will use a range of recycled materials to create either a spaceship, space station or satellite.

Encourage pupils to create a spaceship, space station or satellite using recycled objects such as cardboard, newspaper and recycled bottles. They might want to research examples of the model they have chosen to make. Encourage pupils to be creative, they could use paper mache or paint to bring their models to life.



Reflection Question: When might a space scientist work with other people to share information?