

# Teacher Notes (Upper 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 5 and 6 of Listening from the Skills Builder Framework.  
Listening Step 5: I can listen to extended talk and identify the key information I need.  
Listening Step 6: I can take part and respond in a group discussion.

Share the definition: "Listening is the receiving, retaining and processing of information or ideas".

Using the Discover & Do worksheet, ask pupils to:

- ☐ Fill in the missing information in the sentences about Tamela
- ☐ Tell a partner what surprised them most about Tamela, her job and the skills she used

#### Activity 2 – Planets of the Solar System

In this activity, pupils will create a mnemonic to help them remember the planets of the solar system, before creating their own planet.



15-20  
mins

Can pupils remember the names of all of the planets in the solar system? Challenge your class to work in pairs to create a mnemonic to help them remember the names and order of the planets in terms of distance from the sun. You might want to share or remind your class of a familiar mnemonic: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune.

In addition to this, pupils could then think of a design for their own planet and create a fact file of the features, e.g. temperature, colour, size, composition, etc.



**Reflection Question:** What sort of things do you think a space scientist needs to remember?

#### Activity 3 – Planet Fact Files

In this activity, pupils will create a class book of fact files based on their new planets.



Extended  
project

Ensure that pupils have finished designing their own planet and ask them to complete their fact file about this planet. Encourage pupils to present their fact file in an attractive and engaging way, as you could use the finished fact files to create a class book.



**Reflection Question:** When might a space scientist need to share information with lots of people?