

Teacher Notes (Upper Key Stage 2)

Rosa chats to Jess the Speed Engineer



Jess is a Speed Engineer. A speed engineer looks at how fast something can go and ensures it is safe. A speed engineer is also called a 'Vibrations Engineer' and they can work in many industries including the motor industry and aviation.

Other related jobs:

Buyer

Manufacturing Engineer

Submarine Engineer

Equipment Build / Repairer

Aircraft Engine Mechanic

External Communications Manager



Guided Reflection – to structure a conversation after the film



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



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 Jess
- ☐ Tell a partner what surprised them most about Jess, her job and the skills she used

Activity 2 – Design your own land speed car

In this activity, pupils will design a car which would attempt to break the land speed record.



15-20
mins

Ask pupils to design a car which could attempt to break the land speed record.

They should consider the importance of the features they choose and their impact on aerodynamics. You can help them to think about ways to streamline their design and the addition of specific design elements to improve their chances.



Reflection Question: What topics and lessons at school help land speed engineers do their job well?

Activity 3 – Make your own land speed car

In this activity, pupils will use junk modelling to make their own land speed car.



Extended
project

Encourage pupils to use junk modelling to create a car before seeing how fast it can go. Again, they should consider the importance of aerodynamics, concerns about streamlining and the addition of specific design elements to improve their chances. Ask them to bring their models in to share and evaluate the designs against the criteria discussed.



Reflection Question: How does Jess think about safety when she works as a speed engineer?