

Assembly Plan

#TEWeek19



Tomorrow's Engineers Week 2019 provides a unique opportunity for engineers, employers, universities and schools to showcase how engineers are on a mission to make the world a better place.

At the heart of the Week will be a "Big Assembly" where around 50,000 young people are expected to take part in the same school assembly at the same time. The Big Assembly will feature inspirational engineers on a mission to improve people's health and the nation's wellbeing by protecting the environment.

This lesson plan helps you to integrate the Big Assembly into the school day through an assembly. Other lesson plans are available for PSHE and STEM lessons.

Date:

Year:

8/9 (but could apply to all secondary school year groups)

Lesson:

Assembly

Topic

Engineers on a mission

Use with 'Assembly slides'

Learning objective and outcome

By the end of today's assembly you will understand what engineering is and have had the opportunity to consider engineering as a future career.

Introduction (5 min)

Ask the question, when you were little (about 7 years old), what did you want to be when you grew up? The teacher giving the assembly could share their own childhood dreams at this point, or invite the accompanying teachers around the room to contribute too.

Chances are, the jobs that come up will be quite obvious (firefighter, footballer, doctor, etc.)

Explain that there are lots of jobs that the students might like to do in later life, but they've never even heard of them yet. Use the slides to go through three unusual jobs (cryptologist, metallurgist, parasitologist). Students have to guess which of the three options is the correct answer. It's deliberately silly!

Explain that all three of these jobs are examples of jobs in engineering and many engineers are on a mission to make the world a better place.

The Tomorrow's Engineers Week Big Assembly will see our school join more than 850 others around the country – all watching at the same time! It will introduce students to what engineering involves.

Big Assembly Viewing (30 min)

Students view the Tomorrow's Engineers Week Big Assembly, either live on Wednesday 6 November at 10:30am or on demand (available 24 hours afterwards).

Follow-up (depending on time available)

- Introduce a 'real-life' engineer you have organised to come in to speak to the students and hand over to them, allowing Q&A time afterwards

OR

- Show students the 100 jobs in Science, Technology, Engineering and Maths poster and ask them if they can explain what all of these jobs are (three of them were covered in the Introductory activity). If they don't know, do the teachers know? A laptop with access to Google might be handy here!

OR

- Explain that in a future assembly there will be a 'real-life' engineer coming in to speak to the students. Ask students to suggest some questions they would like to ask the engineer.

As they leave the assembly, distribute copies of the What is Engineering? Leaflet for young people.

Key Words

Engineering

Resources

- A projector and screen to show the slide for the introductory activity and the 'Big Assembly' presentation
- Register for the Tomorrow's Engineers Week Big Assembly online: www.bigassembly.org/register-tew
- 100 jobs in Science, Tech, Engineering and Maths poster
https://tomorrowsengineers.org.uk/media/2587/tbb-2018-top-100-a3-size-handout_05.pdf
- Sufficient copies of the What is Engineering? Leaflet for young people
https://tomorrowsengineers.org.uk/media/2585/euk1465_whatisengineering_euklogo.pdf
- Order resources from www.tomorrowsengineers.org.uk/careers-resources-activities/order-printed-careers-resources

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