Engage Teacher Conference

SESSION SUMMARY

Including careers in the classroom to broaden career aspirations

A brief summary of the range of resources that teachers can use to incorporate a diverse range of STEM careers into their classrooms.

Dr Carol Davenport, Associate Professor and Director, NUSTEM Watch the recording

See the full slides

nustem attributes



What are the attributes that children and young people might share with STEM professionals?

Collaborative	Committed	Communicator
Creative	Curious	Hard-working
Imaginative	Logical	Observant
Open-minded	Organised	Passionate
Patient	Resilient	Self- motivated

Talking about NUSTEM attributes can help pupils to think about how they might develop them in school and at home.

Using NUSTEM attributes can help those who are thinking about careers identify characteristics that they share with others who work in STEM careers.

However, the attributes are broad enough that they don't limit choices for those who ultimately don't go into STEM.

See how these are used in the British Science Week activity packs <u>here</u>.

Engage 2

Careers



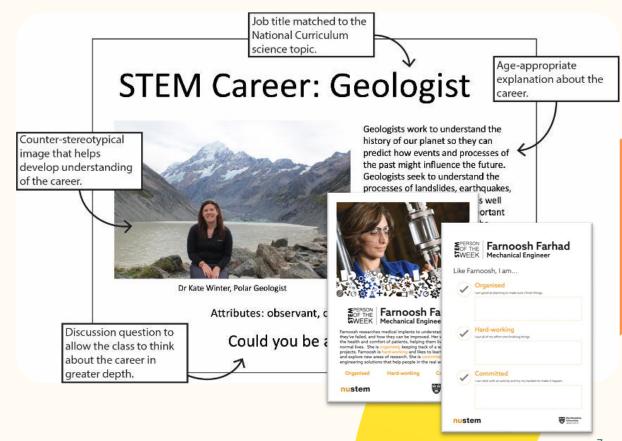
How to help broaden career knowledge and aspirations (Primary school) You can find examples of a variety of STEM careers from the <u>National Careers Service</u> and NHS.

Try the <u>Curriculum Careers Tool</u> to

- Link careers with topics from the curriculum.
- Ask pupils 'Could you be a...?' and 'Where have you shown these attributes?'

Try STEM Person of the Week to

- promote a counter-stereotypical view of the STEM profession.
- show children that they already have the skills that you need to work in STEM.



Careers



How to help broaden career knowledge and aspirations (Early Years)

Try <u>Play</u>, <u>Be</u>, <u>C</u> to support with STEM education in the early years.

- Linked to literacy development through a story book.
- Flexible and adaptable to your setting.
- Attribute focused









The Meteorologist
Meteorologist use reasoning equipment and make forecasts of what the weather is going to be fixe.

the Glaciologists studies glaciers – huge lungs of ice found on a near the North and South poles.

Glaciologists are: Curlous, Observant, Restlent

Marine Engineer

Marine engineer make and fix boots and ships, submarines, oil rigs and drilling equipment.

Gadologists are: Curlous, Obsarvant, Racillent Marine engineers are: Curlous, Creative, Racillent

Marine engineers are: Curlous, Creative, Racillent







Lighting Technician
Uping technicians design the vary lights are used in films, concerts and
theather on to light our buildings, statues and bridges
Upings standards are Chinasa for Chinasa Chinasa to

Fluid Scientist

Pluid Scientists are interested in what liquids and gases are like and hostitiesy move and behave.

Robotics Engineer
Sobotics engineer derign, build and programma machines to do jobs more easily than a human could.



Magnet Engineer
Magnet engineers design magnets or machines that use magnets.
Magnet engineers and Curlous, Creative, Observant.



Arborist

Arborist

Arborists look after trees and make sure they are healthy. Arborists are sometimes called free surgeons.



Civil Engineer

Civil engineers plan, design, build and manage buildings, roads, bridges, dams, water systems, relively, harbours...

Civil engineers are Creative. Collaborative and Recilient.

How will you be using the resources?

"I will use the <u>STEM Person of the Week for</u> assemblies and link to our school qualities for PSHE"

"We will include a slide at start and end of maths units and in science"

One key takeaway:

The easy thing to get started with is try the Curriculum Careers Tool.





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Thank you

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