

Using the Hospital as a STEAM resource



Presented by: Bianca Costa and Fionnuala Wilkins
The Children's Hospital School at Great Ormond Street and UCLH



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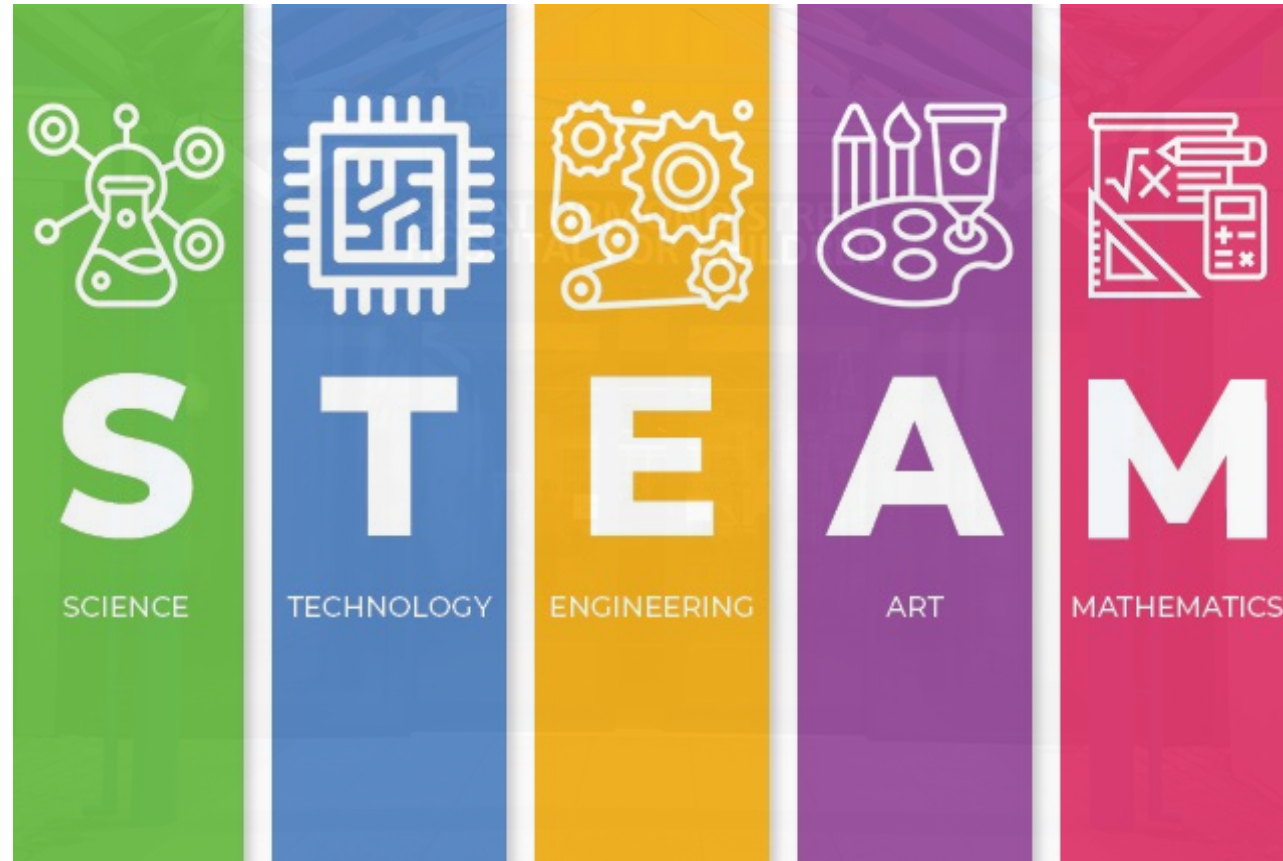
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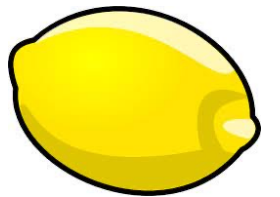
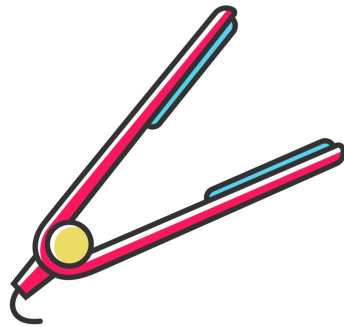
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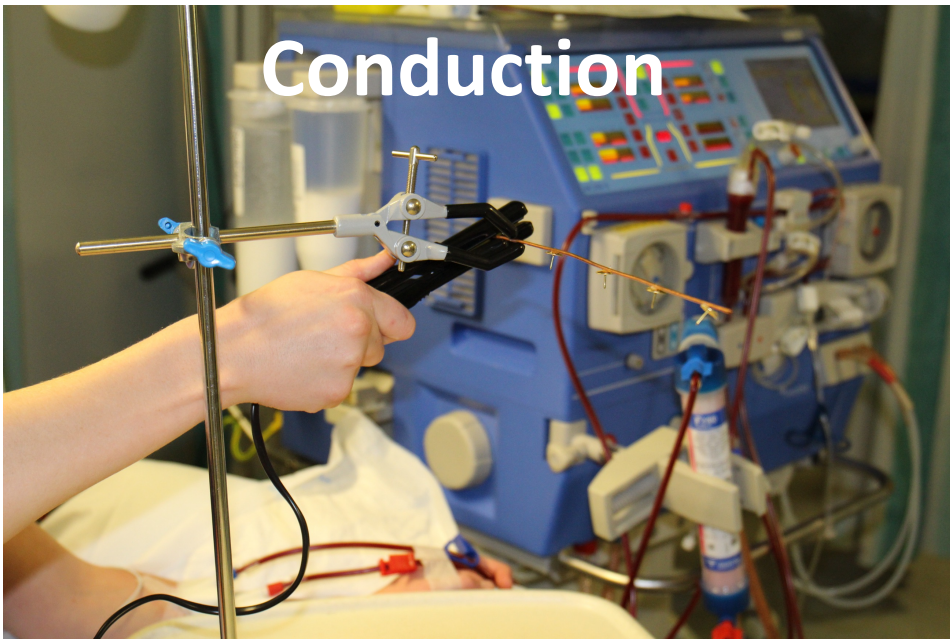
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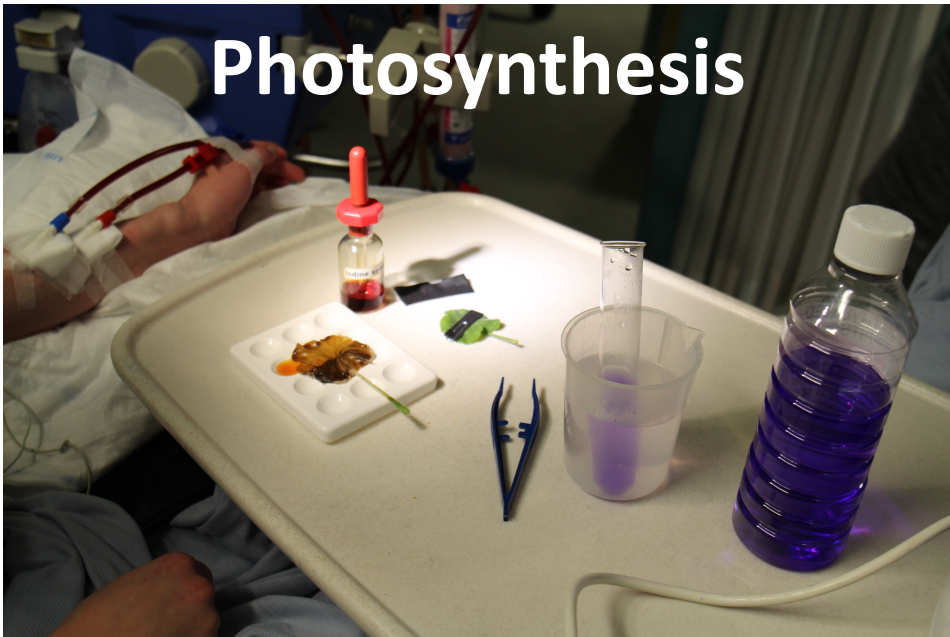
Conduction



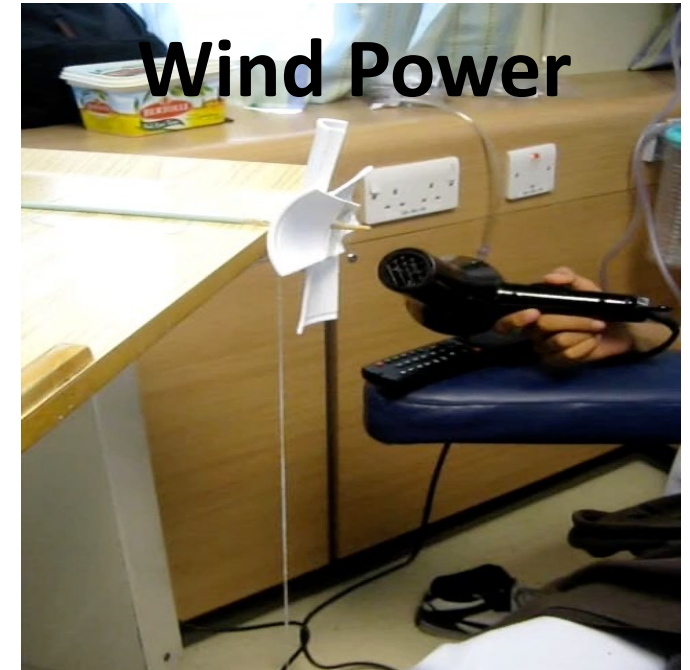
Evaporation



Photosynthesis

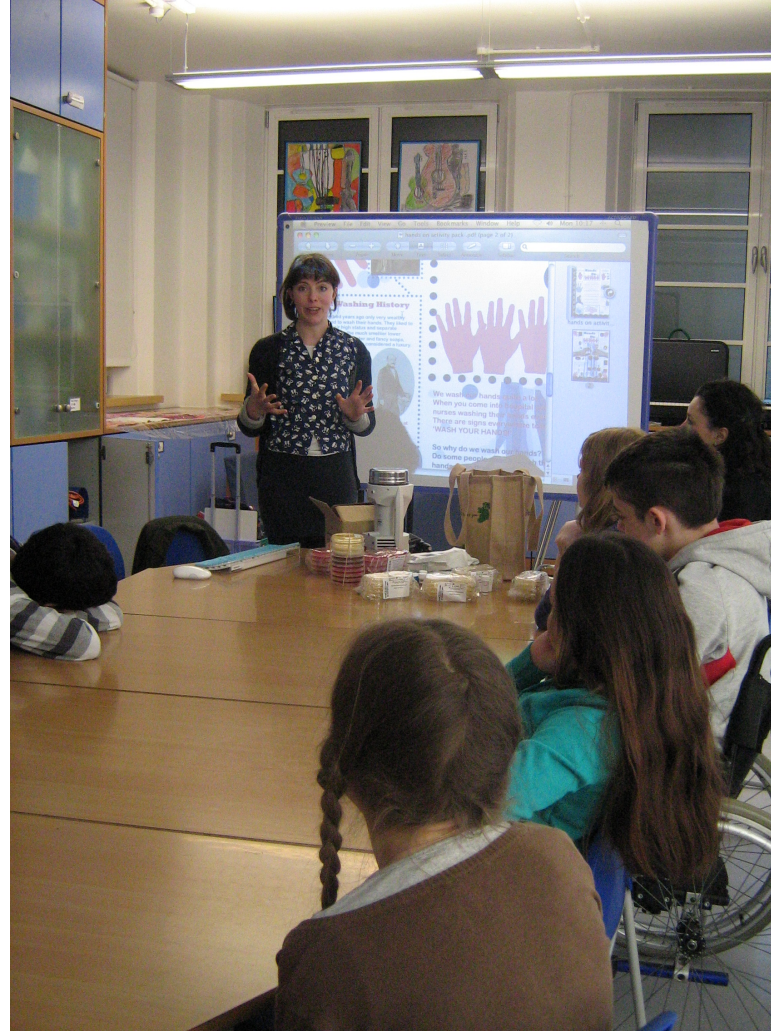


Wind Power





Microbiology



Students should be taught:

- that living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals
- that biology is the science of living organisms (including animals, plants, fungi and microorganisms) and their interactions with each other and the environment
- that bacteria, viruses and fungi can be pathogens in animals and plants

Microbiology



Infection Prevention Control Team

Clean Hands Project

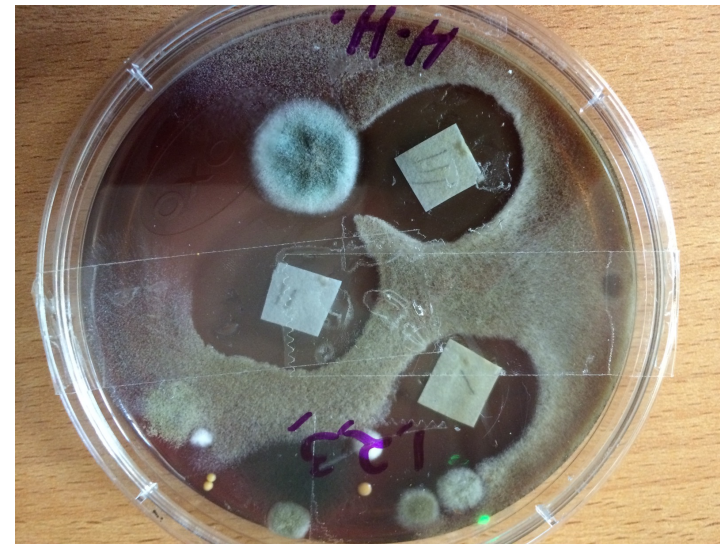


Infection Prevention Control Team



Students should be taught:

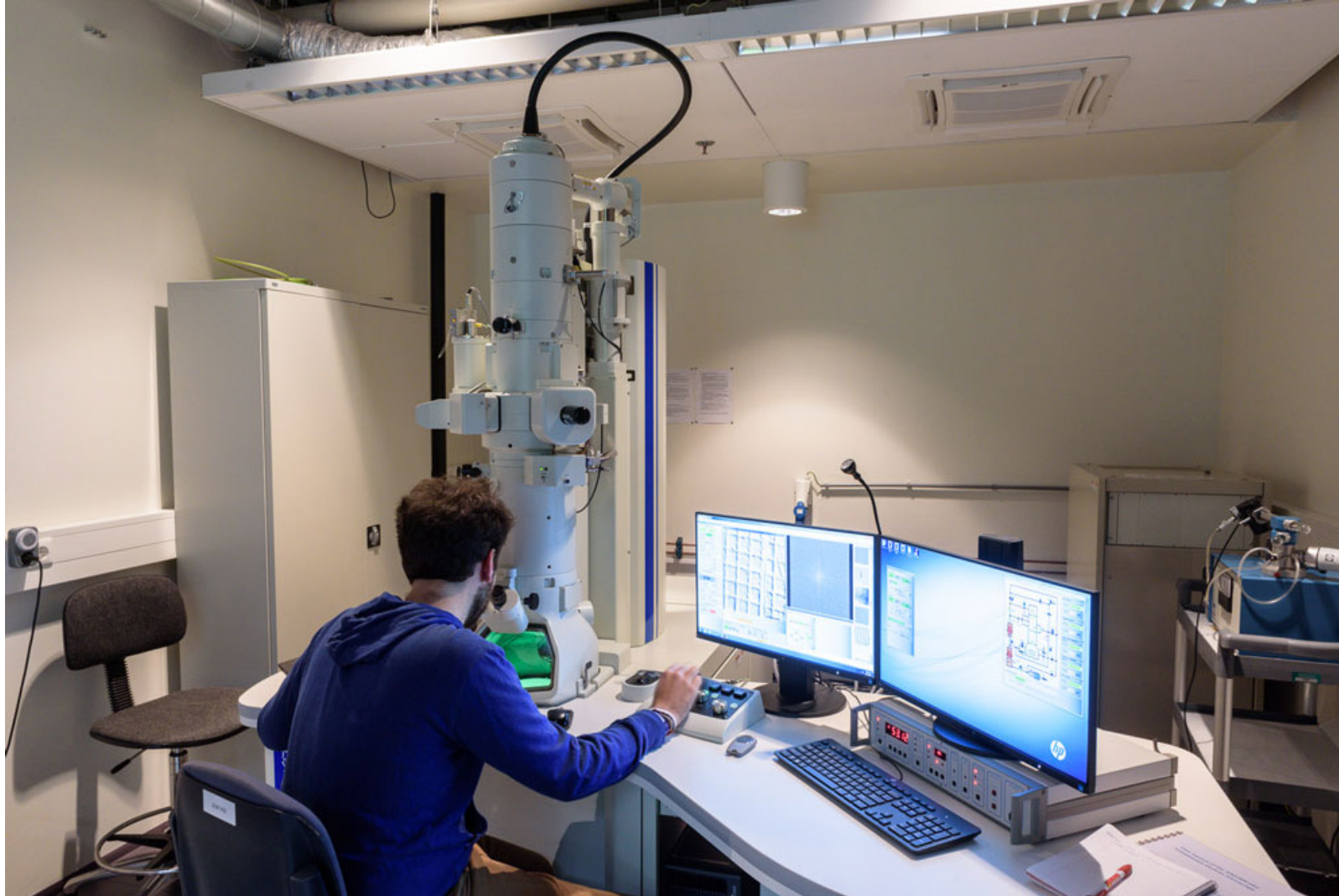
- the relationship between health and disease
- how to reduce and prevent the spread of infectious diseases in animals and plants



Surgery



Microscopy



Students should be taught:

- how microscopes have enabled the study of cells
- the similarities and differences between light microscopes and electron microscopes

Pharmacy



Student should be taught:

- the process of discovery and development of new medicines



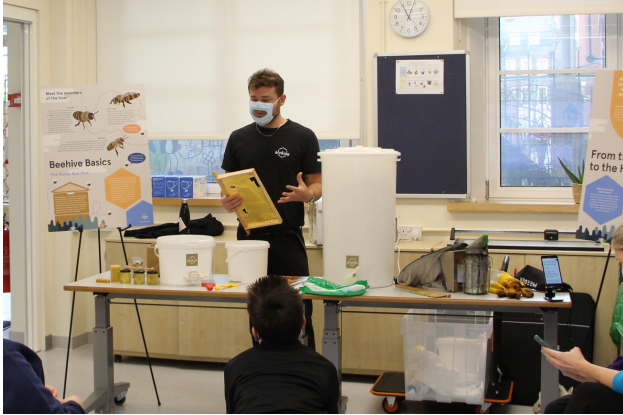
Sustainability - Engineering



Students should be taught:

- the energy changes in a system involving heating, doing work using forces, or doing work using an electric current:
- that power is the rate of transfer of energy
- how to calculate energy efficiency for any energy transfers
- about renewable and non-renewable energy sources

Sustainability – Bee Keeper



Students should be taught:

- the importance of plant reproduction through insect pollination in human food security

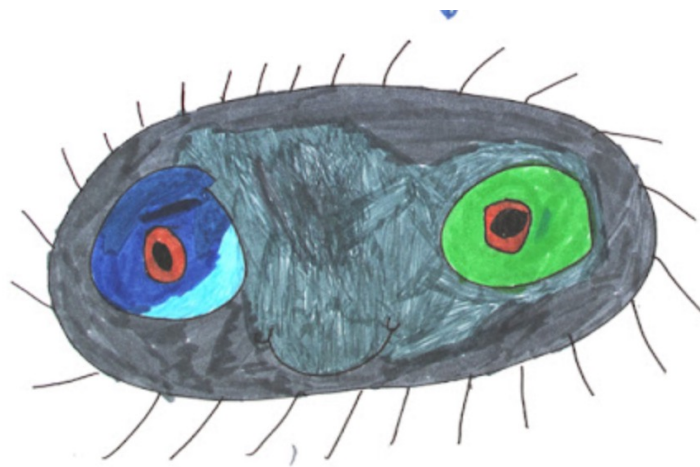


GOSH Arts – Hands on Project

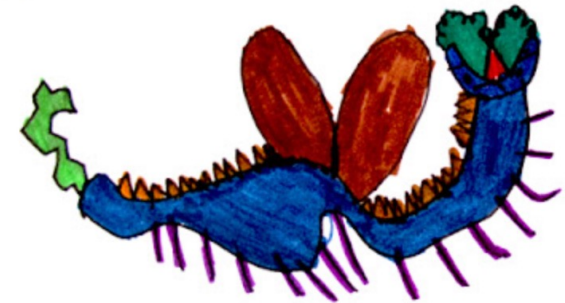


Students should be taught:

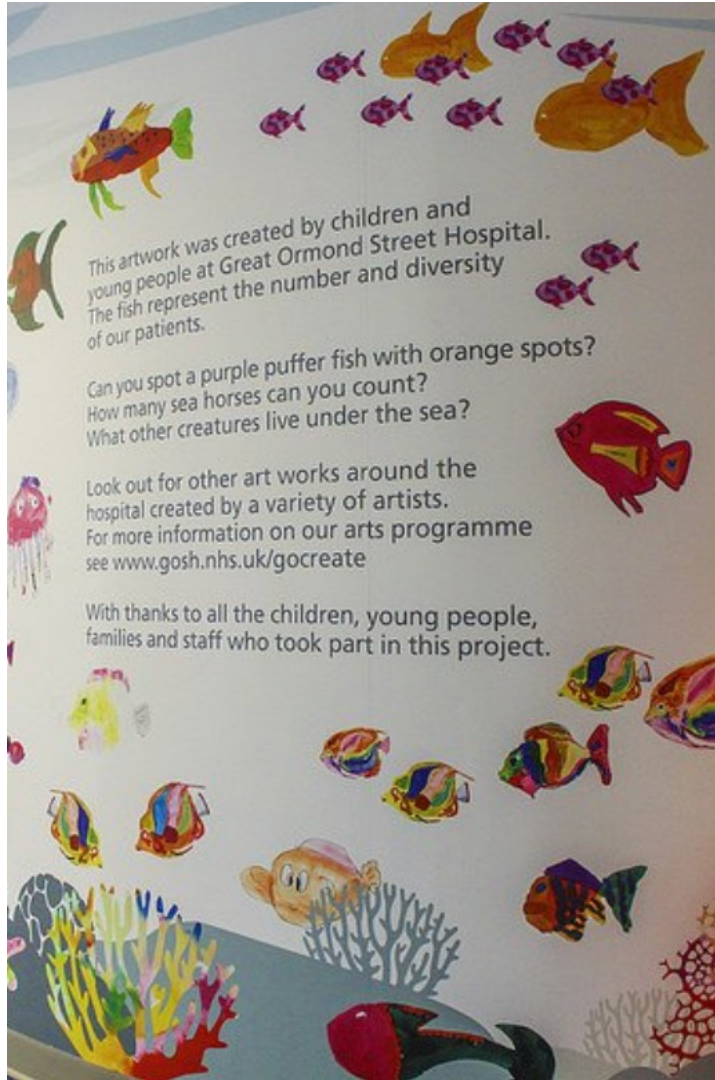
- to use a range of techniques and media, including painting
- to increase their proficiency in the handling of different materials



Diplogermanator



GOSH Arts – Front Entrance Design



DRIVE – Data Research, Innovation and Virtual Environments

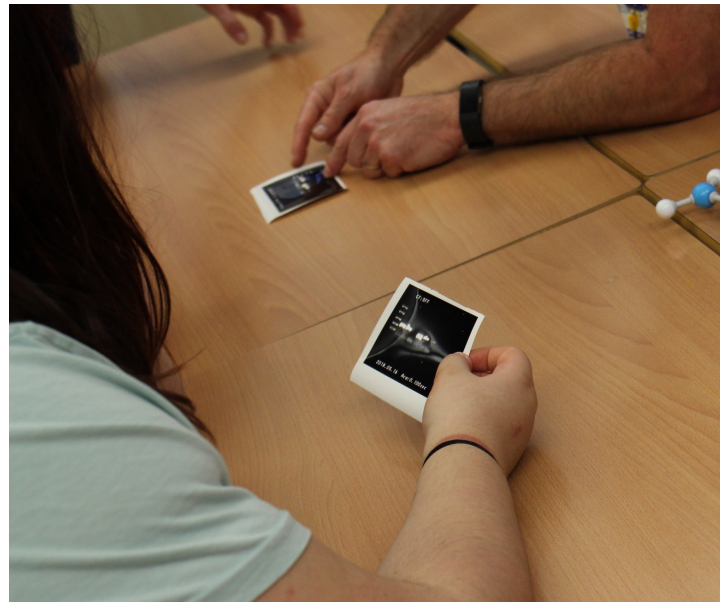


Imaging

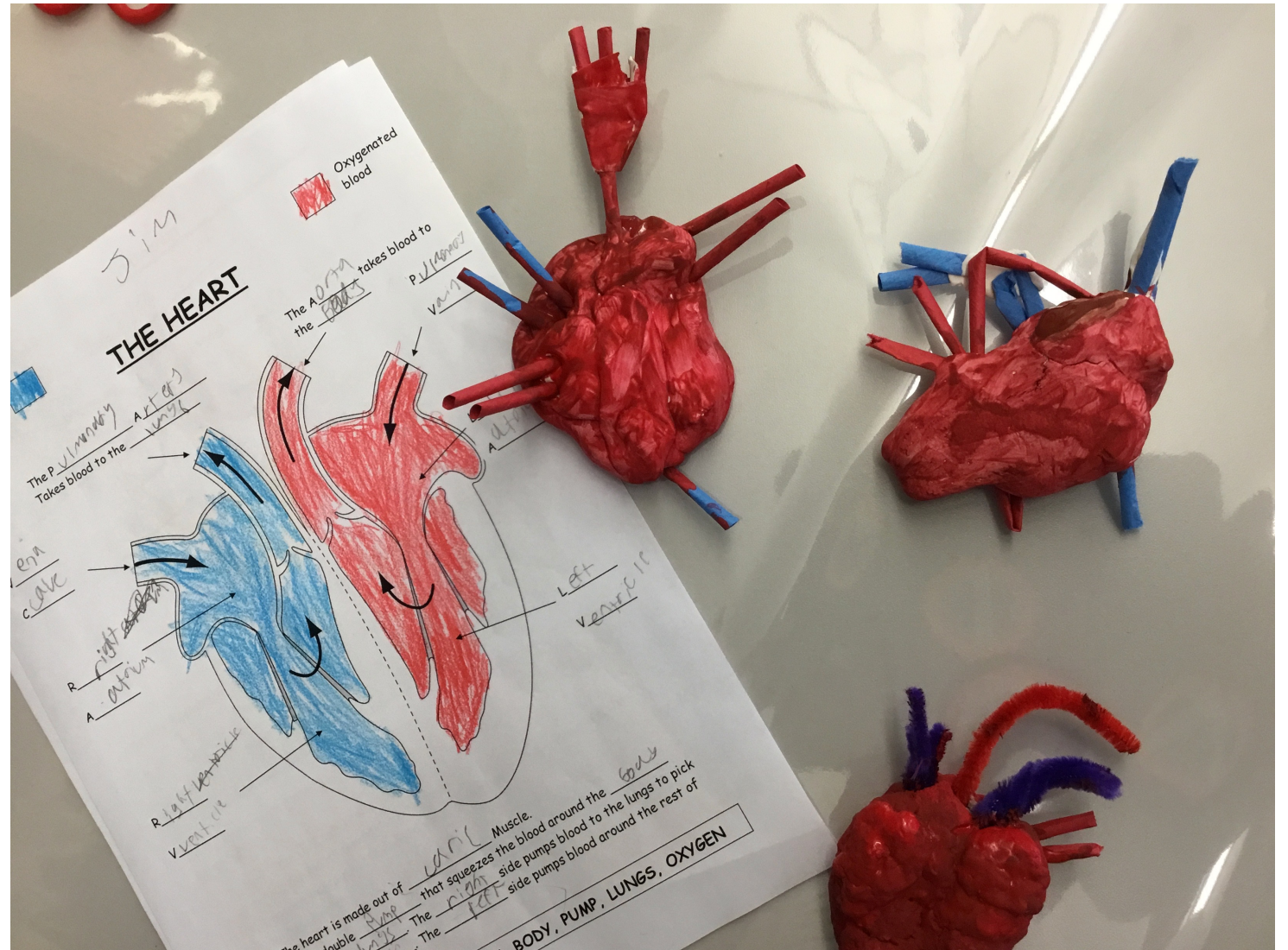


Students should be taught:

- uses in the radio, microwave, infra-red, visible, ultra-violet, X-ray and gamma-ray regions, and the hazardous effects on bodily tissues



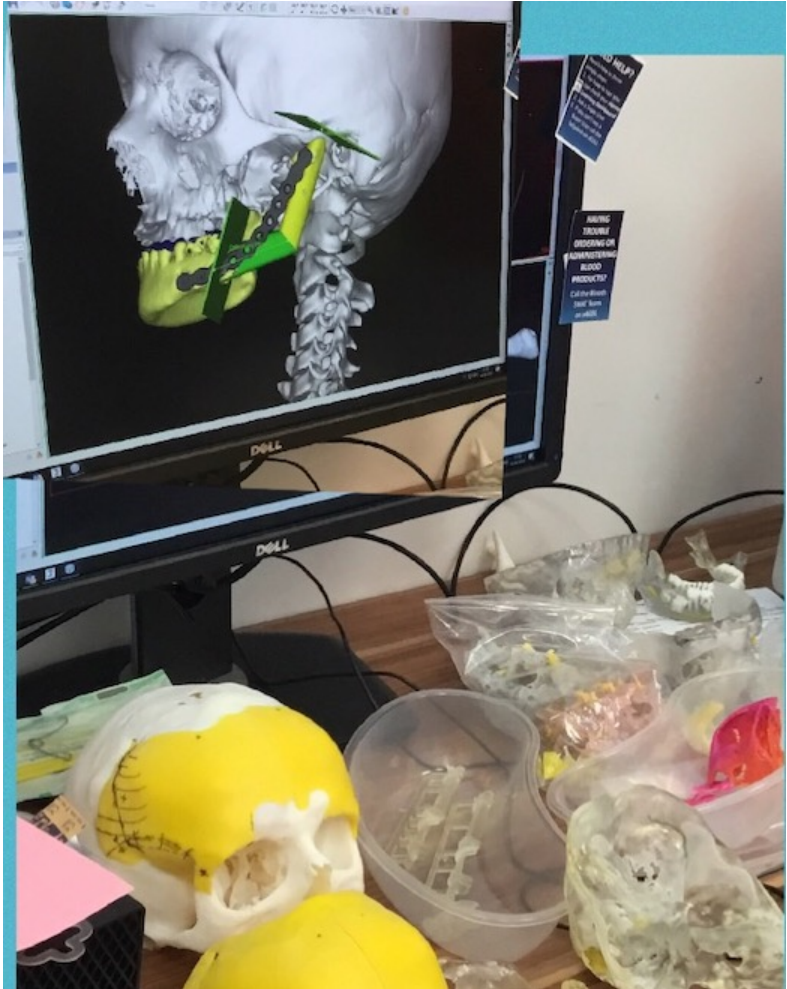
3-D Printing



Students should be taught:

- to identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood

3-D Printing

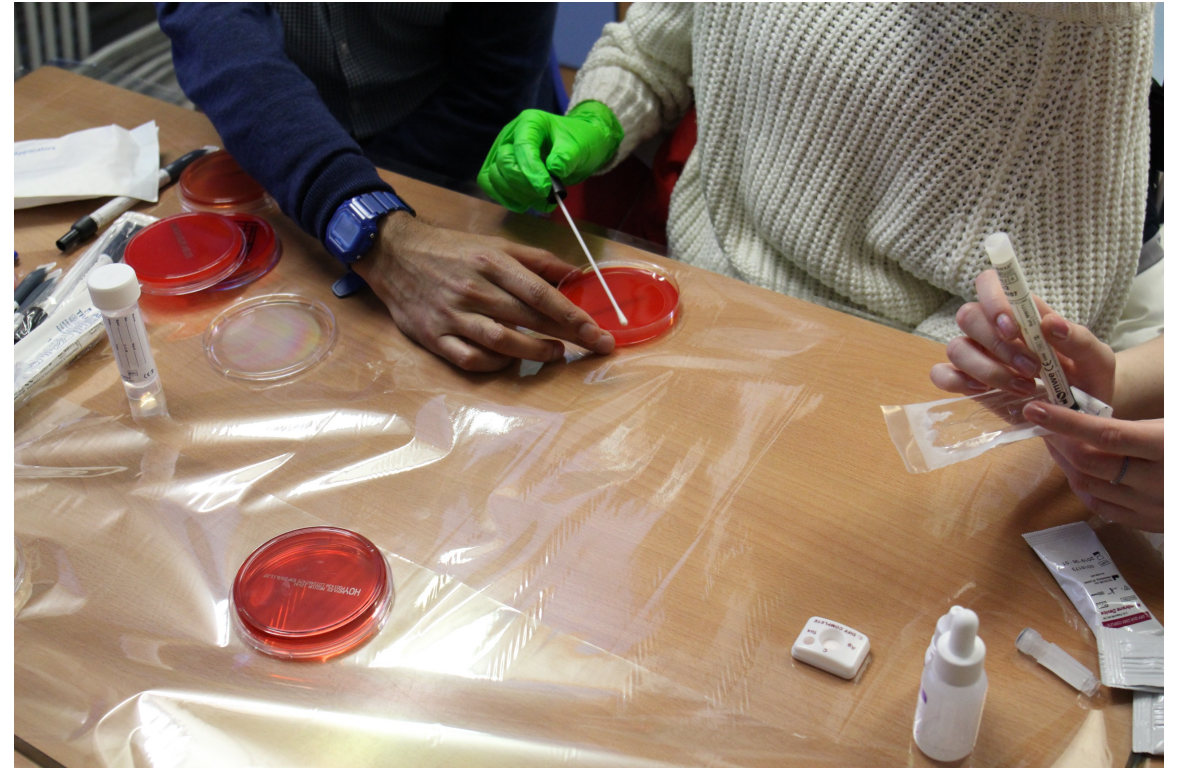
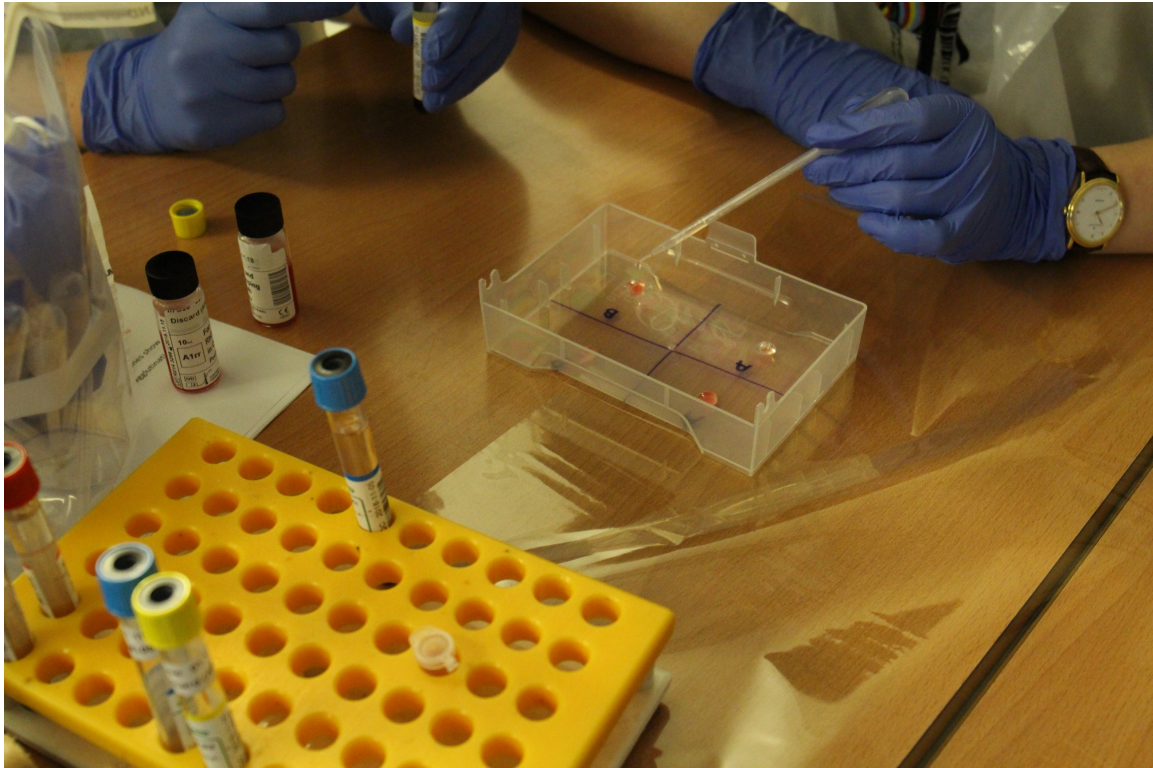


Students should be taught:

- how key events and individuals in design and technology have helped shape the world



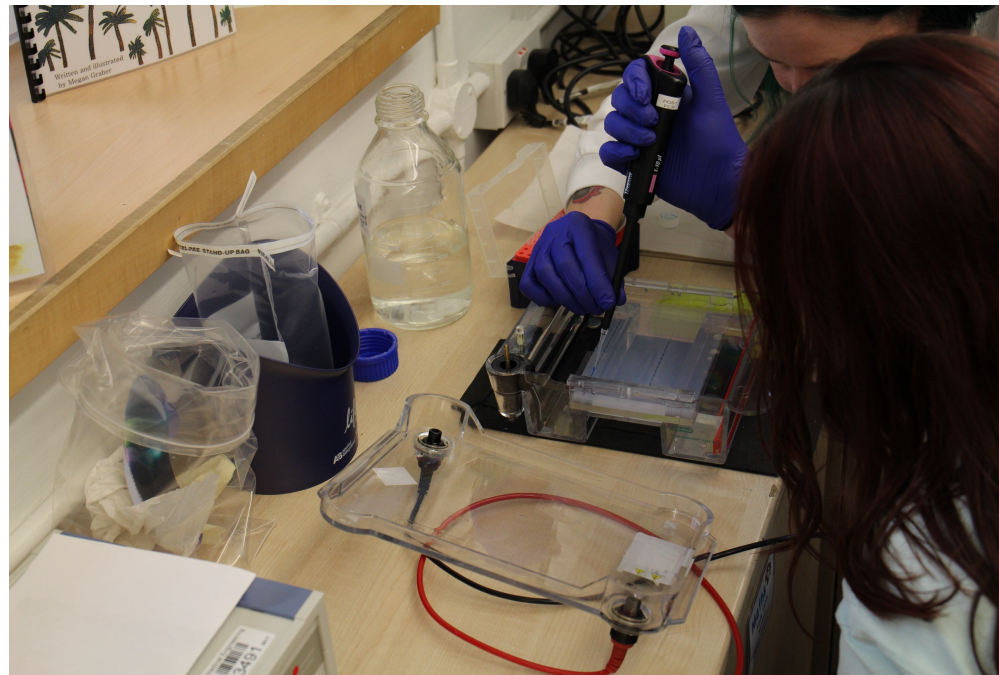
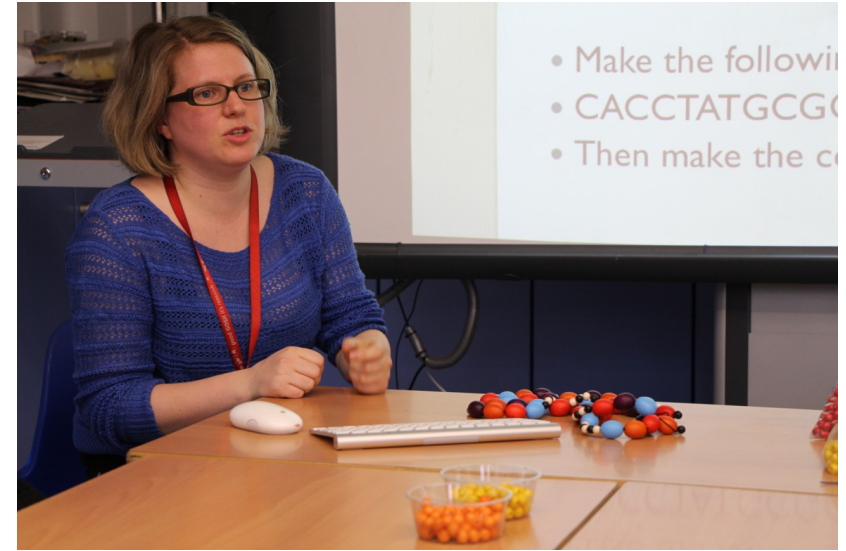
Pathology



Students should be taught:

- how vaccinations and antibiotics help fight infections
- the role of antibiotics in society and how superbugs evolve

Research Teams



Microbiology

**Infection Prevention
Control**

Researchers

Imaging

Pathology



DRIVE

Sustainability team

GOSH Arts

Bee Keeper

Gardeners

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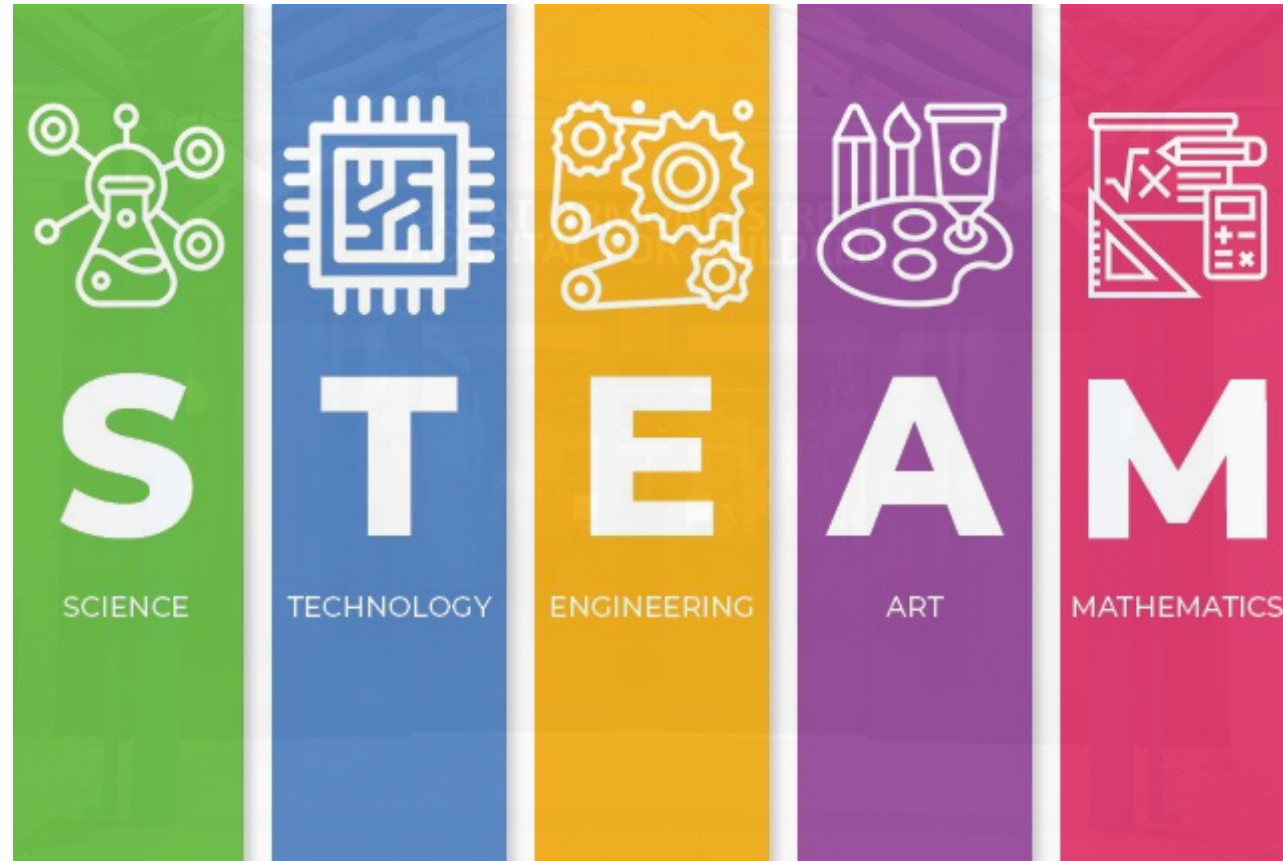
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