Science at Tottington High School







Science Faculty at Tottington High School

Head of Faculty - Mr M Hardman, Staff: Miss N Kilby, Miss C Mableson, Miss S Wagstaff, Mr R Shaw







• Can you identify what these close up images are of





• Can you identify what these close up images are of





 Which one of these people famously said 'the Eagle has landed' and can you name them all?







ALL ANSWERS WILL BE GIVEN AT THE END



Science course

- In year 7 and 8 you will study the three science disciplines
- Biology
- Chemistry
- Physics
- These form a foundation for the GCSE course starting in year 9

- In year 7 and 8 you will usually be taught by one teacher.
- In each term you will study a topic related to the three disciplines.
- Each one will have a Key Assessed Task (KAT) at the end of it.



Biology course

- In year 7 you will study
- Organisms: Cells, Bones, Muscles & movement.
- Ecosystems: Food chains & prey/predator relationships, Plant structure and reproduction.
- Genes: Biological variation, Human reproduction.

- In year 8 you will study
- Organisms: Healthy body, Digestion.
- Ecosystems: Respiration , Photosynthesis.
- Genes: Biodiversity & Natural selection, Genetics.



Chemistry course

- In year 7 you will study
- Matter: Solids, liquids & gases, Solutions and separation techniques
- Reactions: Acids & alkalis, Types of elements & chemistry of metals.
- Earth: Rocks, Space.

- In year 8 you will study
- Matter: Atoms, Elements of the periodic table.
- Reactions: Types of chemical reaction, Exo and endo thermic reactions.
- Earth: Environmental chemistry, Global warming, Recycling.



Physics course

- In year 7 you will study
- Forces: Balanced & unbalanced Forces, Speed
- Electromagnets: Electricity.
- Energy: Useful energy, Energy costs
- Waves: Sound waves, Light waves.

- In year 8 you will study
- Forces: Types of forces, pressure.
- Electromagnets: Magnetism, using electromagnets.
- Energy: Levers, Heating and Cooling
- Waves: Sound waves, Electromagnetic spectrum



Resources

- In year 7 and 8 our curriculum follows AQA Activate scheme.
- Our lessons follow a Scheme of work for each year which is supported by a text book. (accessible on line via kerboodle on line support)

RESOURCES

DIGITAL BOOK

and annotation

Online versions of the Student Books for display

at home

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- The Activate scheme also provides,
- Practical ideas to support learning.
- Consolidation and extension worksheets

LESSONS

MARKBOOK

resources and teacher notes

Ready-to-go lesson presentations, with linked

/iew work and results, track progress and more

- A learning journey checklist
- End of unit assessments.

AOA KS3 Activate



Create and organise teaching groups for this course,

and invite more teachers to Kerboodle

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Homework

- Homework is set regularly and pupils write their tasks and deadlines in their year planner
- The homework is also published electronically on a support platform called 'Class Charts'
- This enables carers and parents to log into the site and check what homework has been set and when it is due
- The tasks can range from comprehension worksheets, maths skills including graphs, practical write up and analysis, research and revision



TDI













 'the Eagle has landed' was said by Neil Armstrong after he landed on the Moon during the Apollo 11 mission in 1969.







DAVID ATTENBOROUGH

