Watling Academy - Science - Learning Journey

Post 16

GCSE Year 11

- Revision and recap Preparation for GCSE's
- Revision and recap Preparation for GCSE's
- Earth—Using Resources
  Earth—Space Physics (Triple Only)
  Ethos: STEM
  Skills: Making links and applying knowledge, evaluating, analysing patterns
- Earth—Chemistry of the Atmosphere
  Electromagnetism—Magnetism and Electromagnetism
  Ethos: STEM, sustainability
  Skills: Making links, problem-solving, planning, collecting data
- Ecosystems—Ecology
  Waves—Waves
  Ethos: STEM, Sustainability
  Skills: Communication, making links, evaluation
- Genes—Inheritance, Variation and Evolution
  Matter—Organic Chemistry
  Ethos: STEM, sustainability
  Skills: Problem-solving, creating, planning and organization, evaluation

GCSE Year 10

- Organisms—Organisation
  Reactions—Quantitative Chemistry
  Ethos: STEM
  Skills: resilience, making links
- Organisms—Infection and Response
  Matter—Particle Model of Matter (Phys)
  Ethos: STEM
  Skills: problem-solving, resilience, listening, analysis
- Ecosystems—Bioenergetics
  Reactions—Chemical Changes
  Reactions—Energy Changes
  Ethos: STEM, MK
  Skills: Problem-solving, making links and applying knowledge, data collection
- Reactions—Rate and Extent of Chemical Change
  Matter—Atomic Structure (Phys)
  Ethos: STEM
  Skills: Problem-solving, communication, collecting data
- Organisms—Homeostasis and Response
  Reactions—Chemical Analysis
  Ethos: STEM
  Skills: Making links and applying knowledge, learning from mistakes, analysis and evaluation
- Forces—Forces and Motion
  Ethos: STEM, MK
  Skills: collecting, using and distilling data, calculating

KS3 Year 9

- Matter—Bonding, Structure and Properties of Matter
  Ethos: STEM. MK, Sustainability
  Skills: planning and organisation, creating
- Electromagnets—Electricity
  Ethos: STEM, Char
  Skills: Making links, resilience, problem solving
- Matter—Atomic Structure and the Periodic Table
  Ethos: STEM, Char, MK
  Skills: Thinking, reasoning and making judgements
- Organisms—Cell Biology
  Ethos: STEM, MK,
  Skills: resilience, problem solving, making links
- Energy—Energy
  Ethos: STEM, MK, Sustainability
  Skills: making links and applying knowledge
- Introduction to working Scientifically
  Energy—Energy
  Ethos: Sust. STEM, MK
  Skills: resilience, making links, problem solving

KS3 Year 8

- Waves—Sound
  Reactions—Acids and Alkalis
  Energy—Energy
  Ethos: STEM, Sustainability
  Skills: Questioning, Reasoning, Listening, Communication
- Organisms—Breathing
  Organisms—Digestion
  Matter—Elements and Compounds
  Ethos: STEM, Char, MK
  Skills: Noticing patterns, problem solving, reasoning, making judgements
- Forces—Pressure
  Genes—Evolution and Inheritance
  Ethos: STEM, MK, sustainability
  Skills: Listening, communication, reasoning, observing patterns
- Energy—Work, Heating and Cooling
  Reactions—Chemical Energy and Types of Reaction
  Ethos: STEM, Sustainability
  Skills: Problem solving, questioning, innovating
- Earth—Climate and The Earth's Resources
  Electromagnets—Magnets and Electromagnets
  Ethos: STEM, sustainability, MK
  Skills: making links and applying knowledge, Communication, planning, evaluation, collecting data
- Ecosystems—Respiration
  Ecosystems—Photosynthesis
  Waves—Wave Effects and Properties
  Ethos: STEM
  Skills: making links and applying knowledge, comparing, evaluating, innovation

KS3 Year 7

- Genes—Variation
  Genes—Human Reproduction
  Waves—Light
  Ethos: STEM, sustainability
  Skills: listening, communicating, questioning, thinking
- Electromagnets—Electricity and Charge
  Reactions—Metals and Non-Metals
  Ethos: STEM, MK, sustainability
  Skills: making links, applying knowledge, finding evidence, problem solving
- Matter—Separating Mixtures
  Earth—Rocks
  Ecosystems—Plant Reproduction
  Ethos: STEM, sustainability, MK
  Skills: making links, applying knowledge, analysis and evaluation
- Forces—Gravity and the Universe
  Organisms—Cells
  Ecosystems—Interdependence
  Ethos: STEM, sustainability
  Skills: reasoning, making judgements, evaluation, research
- Matter—Particles
  Forces—Contact Forces
  Organisms—Movement
  Ethos: STEM
  Skills: Problem solving, planning and organization, collecting and using data
- Project: Is MK a Green Place to Live?
  Ethos: Sustainability, MK, STEM, Char
  Skills: Problem solving, research, planning, teamwork and organisation