Watling Academy - Science - Learning Journey

Post 16

GCSE Year 11

- Revision and recap Preparation for GCSE's
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- Earth—Chemistry of the Atmosphere
  Ethos: STEM, sustainability
  Habitss: Making links, problem-solving, planning, collecting data
- Genes—Inheritance, Variation and Evolution
  Earth—Using Resources
  Ethos: STEM, Sust
  Habits: Making links and applying knowledge, evaluating, analysing patterns
- Genes—Inheritance, Variation and Evolution
  Matter—Organic Chemistry
  Earth—Space Physics (Triple Only)
  Ethos: STEM, sustainability
  Habits: Problem-solving, creating, planning and organization, evaluation
- Organisms—Homeostasis and Response
  Reactions—Rate and Extent of Chemical Change
  Electromagnetism—Magnetism and Electromagnetism
  Ethos: STEM
  Habitss: Making links, problem-solving, planning,

GCSE Year 10

- Organisms—Organisation
  Matter—Bonding, Structure and Properties of Matter
  Matter—Particle Model of Matter
  Ethos: STEM
  Habitss: resilience, making links
- Organisms—Organisation
  Reactions—Quantitative Chemistry
  Matter—Atomic Structure (Phys)
  Ethos: STEM, sust.
  Habits: problem solving, communication, calculating
- Ecosystems—Bioenergetics
  Reactions—Chemical Changes
  Forces—Forces and Motion
  Ethos: STEM, MK
  Habits: collecting, using and distilling data, calculating
- Ecosystems—Ecology
  Reactions—Chemical Changes
  Forces—Forces and Motion
  Ethos: STEM, MK, Sust
  Habits: collecting, using and distilling data, calculating
- Ecosystems—Ecology
  Reactions—Chemical Analysis
  Forces—Forces and Motion
  Ethos: STEM, MK, Sust
  Habits: collecting, using and distilling data, calculating
- Organisms—Infection and Response
  Reactions—Energy Changes
  Waves—Waves
  Ethos: STEM, MK
  Habits Problem-solving, making links and applying

KS3 Year 9

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

KS3 Year 8

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

KS3 Year 7

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