KEY STAGE 3 CURRICULUM INFORMATION

KEY STAGE 3 SCIENCE

Learning Leader Contact Information South Campus: Katie Davis Katie.davis@ewsacademy.org.uk 01908 563468 (South) North Campus: Laura Bray laura.bray@ewsacademy.org.uk 01604 862125 (North)

Course Summary:

Our 3 years KS3 Science Curriculum follows the progression model. It provides ideal preparation for all pupils to develop a solid foundation of scientific knowledge and conceptual understanding in all 3 Sciences (Biology, Chemistry and Physics). The curriculum is broadly balanced and ensures skills and knowledge are embedded based on the 'Big ideas' in science. It provides insight into how science works, stimulating students' curiosity and encouraging them to think about science in their everyday lives.

What will students learn?

In Year 7:

Biology	Chemistry	Physics
 Building blocks of living organisms Reproduction Exchange and transport in Plants Plant nutrition Respiration Ecosystems 	 Particles Pure and impure substances Periodic table Chemical reactions Our Earth 	 Space Energy Forces Light Electricity

In Year 8

Biology	Chemistry	Physics
 Exchange and transport in humans Animal nutrition Exercise Muscle and bones Biodiversity Plant reproduction Inheritance and evolution 	 Patterns in the periodic table Reactions of metals Separation techniques Earth's resources Earths Atmosphere 	 Energy Transfer Forces on Earth Moving and turning Sound Light Magnetism

In Year 9

Biology	Chemistry	Physics	
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Cell Biology 2 Organisation- Enzymes Organisation- Human Body Cov	mistry Fundamentals nic Structure odic Table alent Bonding c and Metallic BondingEnergy 1 • Particle Model • Energy 2 • Atomic Structure (Radioactivity)
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HOW WILL STUDENTS BE ASSESSED?

Year 7

- Students will sit a baseline assessment in term 1 to determine the knowledge gained during primary education and enable science staff to tailor teaching to allow students to access the baseline knowledge required. Students will complete summative assessments in Terms 3 and 5 which will look at all units covered upto that point in the academic year.
- Students will also complete a 15 mark diagnostic formative assessment at the end of each unit to help inform future teaching and identify gaps and misconceptions in student knowledge.

Year 8

- Students will sit a summative assessment in Term 1 based upon content taught so far in Year 8 and also during the previous academic year, this will enable science staff to tailor teaching to allow students to access the baseline knowledge required. Students will complete summative assessments in Terms 3 and 5 which will look at all units covered upto that point in the academic year.
- Students will also complete a 15 mark diagnostic formative assessment at the end of each unit to help inform future teaching and identify gaps and misconceptions in student knowledge.

Year 9

- Students will sit formative assessments for Biology, Chemistry and Physics during terms 2, 4 and 6 which will cover all content covered up until that point. These assessments are tailored to the needs of the course.
- Students will also complete a 25 mark diagnostic formative assessment at the end of each unit to help inform future teaching and identify gaps and misconceptions in student knowledge.

WHAT CAN I DO TO SUPPORT MY CHILD AT HOME?

- Use KS3 Exploring Science
- books
- Purchase any CGP KS3 Science revision guide and practice book.
- Year 9- AQA Combined or Separate Science revision guides
- Use the BBC bite size website to go over topics covered in class to support revision.
- Use Educake log in details to complete homework tasks set and keep an eye out for assessment dates.



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• You can also use videos on cognito specifically for KS3 Sciences at <u>Cognito - Learn GCSE Biology</u>, <u>Physics and Chemistry - Completely Free (cognitoedu.org)</u>

TEACHING STAFF CONTACT DETAILS

Name	Role	Email	Tel
Katie Davis	Learning Lead of Science: South Campus	katie.davis@ewsacademy.org.uk	01908 563468
Laura Bray	Learning Lead of Science: North Campus	laura.bray@ewsacademy.org.uk	01604 862125
Katie Gillick	Learning Lead Biology	katie.gillick@ewsacademy.org.uk	01604 862125
Vanessa Stanley	Teacher of Science	vanessa.stanley@ewsacademy.org.uk	01908 563468
Joshua Shears	Teacher of Science	joshua.shears@ewsacademy.org.uk	01908 563468
Cameron Nixson- Engel	Teacher of Science (Head of Year 9)	cameron.nixson- engel@ewsacademy.org.uk	01908 563468
Glenda Fuller	Teacher of Science and PE	glenda.fuller@ewsacademy.org.uk	01908 563468

