OVERVIEW

Students will develop their knowledge and skills in biology, chemistry and physics. As well as consolidating the curriculum content students will be acquiring working scientifically skills throughout all topics, these will include completing practical activities and learning through discovery. There will be a focus on fluency and skills related to the topics, such as graph drawing and analysing, identifying variables and evaluating scientific conclusions.

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7BC Cells

Microscopes, Cell structure, bacteria and uses, yeast cells, Transport within cells.

7CP Particles

Particle Model of Matter, Diffusion, Solutions and pressure, Separating Mixtures

7PE Energy

Energy stores and transfers, efficiency, power, costs of energy, renewable and non-renewable energy resources, sustainability.

Electricity – circuits, potential difference and current.

Assessment

End of topic test for each unit.

pring

7BR Reproduction and Variation

Puberty, Fertilisation, Gestation and Birth, Menstrual cycle, Plant reproduction, germination, variation, evolution

7CC Chemical Reactions

Acids and Alkalis, Oxidation Reactions, Metals and Acids, Titration, Antacid Investigation

Assessment

End of topic test for each unit.

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7PF Forces

Force Diagrams, Contact and Non-Contact forces, calculations, weight and mass, Investigation speed, Friction, Parachutes, Distancetime graphs, speed calculations Time will be spent revising all topics for the end of year exam.

8BP Photosynthesis

Roots, Uses of Glucose, Rate of Photosynthesis, Leaf Adaptations, Transport in Plants, Plants and the Atmosphere, Plants as Food

Assessment

End of topic test for each unit.

End of Year exam will be based on all topics taught this year

Resources for supporting your child at home

Continuity Oak lessons
BBC Bitesize
Sparx Science independent learning

Homework

Weekly Sparx homework (set on Arbor).