



St Paul's International College Science Department

Scope and Sequence Year 7 Stage 4 2024

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10/11
Term 1	The New Scientist									
	Approximately 35 Hours									
	This is a unit that will introduce the basic skills, which underpin scientific learning and enquiry. Students will practice and develop these skills and then apply them to learn about and investigate the varied chemical separations that we perform intuitively within the home and in industry.									
	Outcomes: SC4-1VA, SC4-2VA, SC4-4WS, SC4-5WS, SC4-6WS, SC4-7WS, SC4-8WS, SC4-9WS, SC4-17CW									
	Assessment: Understanding and choosing equipment, Practice recording using different measuring devices, Graphing, Practical and report writing, Mandatory Stage Group activity to separate salt, sand and iron filings , End of Term Test.									

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Term 2	Building Blocks									
	Approximately 30 Hours									
	In this unit students learn about and investigate the building block of life and the building blocks of matter. Students studied the characteristics of living things and focus on the basic structure and function of cells. They also learn about the particle theory of matter and the difference between the particles in a solid, liquid and gas.									
	Outcomes: SC4-1VA, SC4-4WS, SC4-5WS, SC4-6WS, SC4-7WS, SC4-8WS, SC4-9WS, SC4-14LW, SC4-16CW									
	Assessment: Building a model of a cell, Design and carry out a practical investigating changes of state, End of Unit test									



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Term 3	Animal, Vegetable or Mineral									
	Approximately 33 Hours									
	In the first part of this unit students will study classification and learn about dichotomous keys. They will learn about taxonomy and the five kingdoms system used to classify living things. The characteristics of major animal phyla and plant division are also studied. In the second part of this unit students will learn about minerals and rocks including the rock cycle and the formation of igneous, sedimentary and metamorphic rocks.									
	Outcomes: SC4-1VA, SC4-6WS, SC4-7WS, SC4-8WS, SC4-9WS, SC4-12ES, SC4-13ES, SC4-14LW, SC4-15LW									
	Assessment: Practical activities in classification of animals and plants, Mandatory Stage Group research and presentation on plants or animals , Practical test, Individual research and report presentation, End of term Test.									

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8		
Term 4	Making things happen									
	Approximately 25 Hours									
	This unit will help demystify the role of forces in nature and our lives. Defining, describing and explaining forces, using situations where important forces such as friction, gravity, magnetism and electrostatics are involved is a major focus. The second part of this unit is about the role of chemical changes and how important they are in our world.									
	Outcomes: SC4-1VA, SC4-2VA, SC4-3VA, SC4-4WS, SC4-5WS, SC4-6WS, SC4-7WS, SC4-8WS, SC4-9WS, SC4-10PW, SC4-11PW, SC4-16CW, SC4-17CW									
	Assessment: Group practical investigation into forces, Group practical investigation into crash test dummies, Group practical investigation into friction and mass, Group practical investigation into making an electromagnet, Practicals with chemical reactions, End of Term Test.									