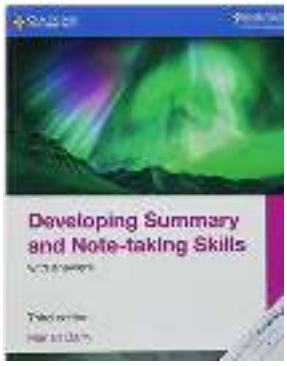
Grade 7 Science will be learning…

Term 1	Term 2	Term 3	Working towards
Plant and animal nutrition •the need of plants for carbon dioxide, water and light for photosynthesis and that this process makes biomass and oxygen •the constituents of a balanced diet and the functions of various nutrients •the effects of nutritional deficiencies •the organs and functions of the alimentary canal •the function of enzymes. **Elements, mixtures and compounds** learners build on their previous knowledge of the particle theory of matter and how this can explain the properties of solids, liquids and gases, to develop their knowledge of: •changes of state, gas pressure and diffusion. •the chemical symbols for the first twenty elements of the Periodic Table elements, compounds and mixtures.	**Transport in plants and animals** •the basic components of the circulatory system and their functions •the basic components of the respiratory system and their functions •gaseous exchange •the effects of smoking •aerobic respiration. **Metals and non-metals** the differences between metals and non-metals chemical reactions word equations. •using a range of equipment correctly •comparing results with predictions •presenting conclusions to others in appropriate ways •presenting results as appropriate in tables and graphs **Sound** •the properties of sound in terms of movement of air particles •the link between loudness and amplitude, pitch and frequency •selecting ideas and turning them into a form that can be tested	**Reproduction and growth** •the human reproductive system, including the menstrual cycle, fertilisation and foetal development •the physical and emotional changes that take place during adolescence •how conception, growth, development, behaviour and health can be affected by diet, drugs and disease **Chemical Reactions** •some common compounds including oxides, hydroxides, chlorides, sulfates and carbonates •using word equations to describe a reaction. •using a range of equipment correctly •discussing and controlling risks to themselves and others •selecting ideas and turning them into a form that can be tested •presenting results as appropriate in tables •identifying trends and patterns **Forces and magnets** • speed including interpreting simple distance/time graphs •magnets, electromagnets and magnetic fields. Scientific enquiry work focuses on: planning investigations to test ideas identifying important variables; choosing which	Gaining scientific knowledge, making predictions, using various ways to take measurements and completing the Cambridge curriculum involving IMYC

Light • how light travels and the formation of shadows • how non-luminous objects are seen • reflection at a plane surface and using the law of reflection • refraction at the boundary between air and glass or air and water • the dispersion of white light • colour addition and subtraction, and the absorption and reflection of coloured light.	•planning investigations to test ideas •identifying important variables; choosing which variables to change and measure	variables to change, control and measure •making predictions using scientific knowledge and understanding •taking appropriately accurate measurements •using a range of equipment correctly	

Books you may find useful:

	Cambridge IGCSE® English as a Second Language Workbook (Cambridge International IGCSE) Paperback – 23 Feb 2017 • **ISBN-10:** 9781316636596
	Cambridge IGCSE English as a Second Language Exam Preparation and Practice with Audio CDs (2) (Cambridge International IGCSE)Paperback – 9 Nov 2017 • **ISBN-10:** 9781316636787
	Cambridge IGCSE English as a Second Language Practice Tests 1 with Answers and Audio CDs (2): For the Revised Exam from 2019 (Cambridge International IGCSE) Paperback – 7 Jun 2018 • **ISBN-10:** 1108546102
	Developing Summary and Note-taking Skills with Answers (Cambridge International IGCSE) Paperback – 28 Jun 2018 • **ISBN-10:** 9781108440790

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