

UNIT TITLE	KEY CONCEPT	RELATED CONCEPT	GLOBAL CONTEXTS	STATEMENT OF INQUIRY	OBJECTIVES	ATL SKILLS	CONTENT
1.Environment †	Systems	Environment	Globalization and sustainability	Changes in our environment requires all living things to adapt in order to survive	CRITERION A: KNOWING AND UNDERSTANDING Demonstrate knowledge on states of matter and density. CRITERION D Discuss the implications of density and states of matter on society and the environment.	Social skills; By collaborating with others in groups Communicati on skills; Ability to effectively communicate their findings Research skills; looking for more information and media literacy	-Investigate differences and how they behave -Kinetic theory of matter -Density of different substances
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2.INTERAC TION	Relationship	Interaction	Identities and relationships	Through identifying relationship of similarity and difference we understand how forces and matter interact	B. INQUIRING AND DESIGNING Plan and carry out scientific investigations involving Gravity, static electricity, electric and gravitational fields. C.PROCESSING AND EVALUATING Interpret data and explain results in relations to gravity, static electricity, gravitational and electric fields using scientific reasoning	R e s e a r c h s k i l l s ; D e m o n s t r a t i n	-Forces and their in -Application of force
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						tion of events and using mnemonic	
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3.Models	Relationships	Models	Scientific and technical innovation	A good model can simplify and illuminate our understanding of complex phenomena	B.INQUIRING AND DESIGNING Plan and carry out scientific investigations involving charges and waves. C.PROCESSING AND EVALUATING Analyze and evaluate data in relation to charges and waves.	Thinking skills Research skills Social skills	Atomic structure, P masses. Longitudinal and tra Wave Equation
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4.Patterns	Relationships	Pattens	Identities and relationships	Patterns can demonstrate relationships between events and shade light	A: Knowing and understanding Demonstrate knowledge and understanding of	Research skills; Demonstrati ng awareness	Electromagnetic sp applications. Radioactivity and de radiation, uses and

				on how they are caused	electromagnetic spectrum, imaging techniques and radio activity. D: Reflecting on the impacts of science Discuss the implications of electromagnetic spectrum, imaging and radio activity.	of media interpretation of events and using mnemonics to remember sequences. Social skills ; Building consensus. Thinking skills	
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5.Energy	Change	Energy	Globalization and sustainability	The need of sustainability is changing the way in which we produce and use energy	A.knowing and understanding Demonstrate knowledge and understanding of work, power, efficiency and energy resources.	Communication skills ; Interpreting discipline specific terms. Research skills ; Seeking a range of perspective	Work and Power, efficiency Transfer and transformation of energy, conservation of energy, sources and environmental impact

					D.Reflecting on the impacts of science Discuss the implications of work,energy,power and efficiency on the society and the environment.	s from multiple sources	
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6.Evidence	Relationships	Evidence	Identities and relationships	Experiments and measurements provide evidence to support or disclaim scientific claims	B: Inquiring and Designing Plan and carry out scientific investigations involving measurement in science and the Big bang theory. D: Processing and Evaluating Analyze data and evaluate results involving measurements in science and the Big bang theory.	Communication skills ;Representing data in graphs and using and interpreting a range of discipline-specific terms and symbols. Research skills ;Searching for more	Measurement in science The Big bang theory

						information on what constitutes evidence	
MYP 5							
UNIT TITLE AND TEACHING HOURS	KEY CONCEPT	RELATED CONCEPT(S)	GLOBAL CONTEXT	STATEMENT OF INQUIRY	OBJECTIVES	ATL SKILLS	CONTENT
1.Form	Systems	Form	Identities and relationships	Determining the forms of objects can help us to understand how they behave.	A. KNOWING AND UNDERSTANDING Analyze and evaluate information related to the solar system to make scientifically supported judgements. B. INQUIRING AND DESIGNING Design scientific investigations	Communication skills; Understanding and using units Thinking skills; by explaining how our identities has been shaped by the stars Social skills; Encouraging others to contribute	-The solar system -Planets and satellites

					related to the solar system		
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2.Consequences	Change	Consequences	Personal and cultural expression	Innovation in the application of physics leads to change, with consequences shaped by personal and cultural expression.	A. KNOWING AND UNDERSTANDING Apply scientific knowledge and understanding related to electric and magnetic fields to solve problems D. REFLECTING ON THE IMPACTS OF SCIENCE Documenting the work of others in	Thinking skills; What are the consequence of personal expression Research skills; Looking for more information on electricity and magnetism	Electric and magnet Electromagnetic for AC and DC generati electricity Sound waves

					relation to electricity and magnetism and the sources of information used		
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3.Development	Systems	Development	Fairness and development	The development of science and technology gives us the possibility of changing the world for the better	B.Inquiring and Designing Plan and carry out scientific investigations involving measurement in science and the wave phenomena including reflection, refraction and diffraction.	Thinking skills; Considering ideas from multiple sources. Research skills; Publishing a scientific paper Social skills; Teamwork/collaboration	Measurement in science including reflection and diffraction

					C.PROCESSING AND EVALUATING Interpret data related to reflection and refraction and explain results using scientific reasoning.	in doing work	
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4.Movement	Change	Movement	Orientation in space and time	Movement enables humans and animals to change their surrounding for the better	A. KNOWING AND UNDERSTANDING Describe and explain speed and motion graphs	Thinking skills; How magnetism can help us to navigate. Research skills; Media literacy	Speed, Motion graph Magnetism, magnet

					D.REFLECTING ON THE IMPACTS OF SCIENCE Discuss and evaluate the broader implications of speed and motion		
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5.Transformation	Change	Transformation	Scientific and technical innovation	Scientific innovation can transform our human existence	B. INQUIRING AND DESIGNING Students will plan and design investigations related to thermal	Thinking skills Research skills	Pressure Thermal physics Heat transfer

					physics and pressure .Processing and evaluating Analyze data and evaluate results involving pressure, thermal physics and heat transfer.		
UNIT TITLE	KEY CONCEPT	RELATED CONCEPT	GLOBAL CONTEXTS	STATEMENT OF INQUIRY	A. OBJECTIVES	ATL SKILLS	CONTENT
6.Function	Systems	Function	Fairness and development	The development of machines and systems has changed the way in which human beings' function.	B. INQUIRING AND DESIGNING Analyze the effects of forces and Newtons laws of motion C.PROCESSING AND EVALUATING D.REFLECTING ON THE IMPACTS OF	Research skills Communication Thinking	Forces and effects Forces and motion, Current voltage, Power Electric circuits

					SCIENCE TO REAL LIFE Discuss and evaluate the various implications of electric circuits to real life situations		
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