TECHNOLOGY – GRADE 8 2025

TOPIC	ASSESSMENT STANDARDS	PORTFOLIO ASSESSMENT TASKS
PHASE 1 (15 January 2025 – 28 March 2025)		
Mechanical Structures	Structures around the world	**PAT 1 Section A & B** 3 – 7 March
	Mechanisms that change the type of movement.	
	Components of a structure and forces acting on them	
PAT	PAT 1 Section A: Design a model of a Water tower using paper	
	PAT 1 Section B: Make a model of a Water tower using paper	
Digital Technology	Google Classroom - functionality Microsoft Word: • Inserting and formatting text and paragraphs • Modifying a document • Tables and inserting graphic objects • Controlling page appearance • Printing and preparing to publish documents	
PHASE 2 (8 April 2025 – 27 June 2025)		
Mechanical Systems and Control	Levers, linkages and uses	**Mid-Year Exam** 17 – 27 June
	Types of levers	
	Mechanical advantage calculations	
	Gear systems - terminology	
	Types of gears, gears ratio, gear train	
	Mechanical & speed advantage	
Digital Technology	Microsoft Powerpoint: • Setting up the 5/5/5 rule • Global formatting • Use of graphs, charts and images • Synchronising slides with sound and music	
PHASE 3 (22 July 2025 – 21 November 2025)		
Electrical Systems and Control	Advantages and disadvantages of technology – AI, 4IR	**PAT 2 A & B** 25 – 29 Aug
	Sources of energy: conventional and non-conventional	
	Alternate sources of energy	
	Electrochemical cells and batteries - AC and DC Power Circuits - Series /Parallel/ Logic Control /Circuit Simulator	
	Electricity for the people/electricity theft	
	Electronic Circuits - Electronic simulated circuit design	
PAT	PAT 2 Section A: Design a model of an alarm system	**End of Year Exam** 10 – 21 Nov
	PAT 2 Section B: Design, make and present a circuit with Logic control	
Digital Technology	Microbit • Introduction to Microbit language and instruction • Programming Microbit • Tasks 1 – 5	