NATURAL SCIENCES AND TECHNOLOGY PROGRAMME OF FORMAL ASSESSMENT 2019 GRADE 4

TERM	PLANNED DATES		TASK	TOPICS	TOTAL
	DATES				100
1 st TERM	27/02	MENTS	Selected practical task [10 marks]	Living and nonliving things Structures of plants and animals What plants need	
	05/02/2019		Short Test [15 - 40 marks] +	to grow • Habitats of animals	EAR
	11/03/2019	SESS	Controlled Test [40 marks]	Structures for animal shelters	E YE
2 ND TERM	22/05	MENTS SCHOOL BASED ASSESSMENTS	Selected practical task [10 marks]	Materials around us Solid materials Strengthening materials Strong frame structures Work from terms 1 & 2	KS FOR TH
	07/05/2019		Short Test [15 - 40 marks]		AL MAR
	11/06/2019		Exam on work from terms 1 & 2 [40 marks]		TOGETHER MAKE UP 75% OF TOTAL MARKS FOR THE YEAR
3 RD TERM	21/08	SCHOOL BASED ASSESSMENTS	Selected Practical task [15 marks]	 Energy and Energy transfer Energy around us Movement energy in a system Energy and sound 	MAKE UP
	05/08/2019		Short Test [15 - 40 marks]		SETHER
	09/09/2019		Controlled Test [40 marks]		100
4™ TERM	12/11	Ö	Selected Practical task [15 marks]	Planet Earth The Sun The Earth & the Sun The Moon Rocket systems	
	27/11/2019	END OF YEAR EXAM	Exam on work from terms 3 & 4 [40 marks]	Work from terms 3 & 4	MAKE UP 25% OF TOTAL MARK OF EXAM

NATURAL SCIENCES AND TECHNOLOGY PROGRAMME OF FORMAL ASSESSMENT 2019 GRADE 5

TERM	PLANNED		TASK	TOPICS	TOTAL
	DATES				100
1 ST TERM	13/02	SCHOOL BASED ASSESSMENTS SCHOOL BASED ASSESSMENTS	Selected practical task [15 marks]	Plants and animals on Earth Animal skeletons Skeletons as structures Food chains Life cycles	
	06/02/2019		Short Test [15 - 45 marks]		<u>۾</u>
	11/03/2019		+ Controlled Test [45 marks]		TOGETHER MAKE UP 75% OF TOTAL MARKS FOR THE YEAR
2 ND TERM	22/05		Selected practical task [15 marks]	Metals and nonmetals Uses of metals Processing materials Processed Materials Work from terms 1 & 2	
	30/04/2019		Short Test [15 - 45 marks]		
	11/06/2019		+ Exam on work from terms1 & 2 [45 marks]		
3 RD TERM	13/09		Selected Practical task [15 marks]	Stored energy in fuels Energy and electricity Energy and movement Systems for moving things Planet Earth	
	16/08/2019		Short Test [15 - 45 marks] + Controlled Test		
	09/09/2019		[45 marks]		
4 TH TERM	22/10		Selected Practical task [15 marks]	Surface of the Earth Sedimentary rocks Fossils	
	27/11/2019	END OF YEAR EXAM	Exam on work from terms 3 & 4 [45 marks]	Work from terms 3 & 4	MAKE UP 25% OF TOTAL MARK OF EXAM

NATURAL SCIENCES AND TECHNOLOGY PROGRAMME OF FORMAL ASSESSMENT 2019 GRADE 6

TERM	PLANNED DATES		TASK	TOPICS	TOTAL 100
1 ST TERM	20/02		Selected practical task [15 marks]	Photosynthesis Nutrients in food Nutrition	
	05/02/2019	SINTS	Short Test [20 - 50 marks]	Food ProcessingEcosystemsand Food webs	~
	11/03/2019	SSME	Controlled Test [50 marks]		YEAF
	08/05	SED ASSE	Selected practical task [15 marks]	Solids, liquids and gases Mixtures Solutions as special mixtures	FOR THE
2 ND TERM	07/05/2019	SCHOOL BASED ASSESSMENTS SCHOOL BASED ASSESSMENTS	Short Test [20 - 50 marks] + Exam on work from terms1 & 2 [50 marks]	Dissolving Mixtures and water resources Processes to purify water Work from terms 1 & 2	TOGETHER MAKE UP 75% OF TOTAL MARKS FOR THE YEAR
	11/06/2019				
3 RD TERM	14/08		Selected Practical task [15 marks]	Electric circuits Electrical conductors and insulators Systems to solve problems Mains electricity	
	29/07/2019		Short Test [20 - 50 marks]		
	09/09/2019		Controlled Test [50 marks]		
4™ TERM	05/11	SCF	Selected Practical task [15 marks]	The Solar System Movements of the Earth and planets The movement of the Moon Systems for looking into space Systems to explore the Moon and Mars	
4 H	27/11/2019	END OF YEAR EXAM	Exam on work from terms 3 & 4 [50 marks]	Work from terms 3 & 4	MAKE UP 25% OF TOTAL MARK OF EXAM

SOME OF THE CAPS RECOMMENDED INVESTIGATIONS/PRACTICAL TASKS PER GRADE

TERM	GRADE 4	GRADE 5	GRADE 6
TERM 1	Investigating the growth of plants from seeds and cuttings by observing, measuring and recording the growth over time Designing and drawing an animal shelter, taking into account its: purpose shape and size materials And evaluating the suitability of the design	Designing, making a model of a vertebrate skeleton using struts made from rolled paper or drinking straws	 Comparing glucose sugar (such as glucose sweets) and starch (such as maize flour) according to their taste and colour Testing starch with iodine solution to show the colour change. Testing foods for starch including cooked rice, flour, potato, bread, oil, boiled egg, cheese Researching how to process food (raw material) by combining, cooking, freezing, pickling, fermenting, drying and salting to make a product, including indigenous ways of processing of food in different communities and choosing a food and processing it in some way
TERM 2	 Investigating evaporating, condensing, freezing and melting using water and ice Investigating melting and solidifying using different substances such as butter/ fat/ margarine, wax, ice cream, chocolate Investigating which shape of pillar is the strongest (can support the most weight). Draw a bar graph of the results Designing, making and evaluating a strong structure using tubular struts, such as a model of a tower, bridge, pylon, chair 	Investigating, comparing and recording the properties of some metal objects (such as copper wire, coins, nails, cooking pots, knives and forks) and some nonmetal objects (such as a piece of chalk, a stone, a pile of sand, a piece of coal) Testing different metal objects (such as coins, iron filings, nails, drawing pins, paper clips, wire) to see if they are attracted by a magnet	 Investigating different solids to see if they dissolve in water including: salt, sugar (soluble substances) sand, mealie meal, flour, maize flour, samp, curry powder, custard powder (insoluble substances) Investigating solutions to see if we can recover the solute by: filtering evaporating the water (crystallisation) Investigating, measuring and drawing graphs of the time taken to dissolve a solute: in hot or cold water when stirring/shaking or not stirring/shaking using coarse or fine salt Designing, making and evaluating a simple system to clean dirty water, (such as a sand filter) according to specifications and constraints

TERM	GRADE 4	GRADE 5	GRADE 6
TERM 3	Researching, designing, making and evaluating a musical instrument (such as a guitar, shaker, drum, blowing instrument such as pan pipes, whistles, flutes) that uses movement energy to make sounds	Investigating how long a candle will burn when covered with different sized glass containers (the candles will stop burning when all the oxygen is used up) Making wheels and axles and evaluating whether they move easily (use materials such as bottle tops, round tins or cardboard circles for the wheels, sosatie sticks or dowels and straws for the axles)	 Investigating how to make a simple circuit using cell/ battery, conducting wires, light bulb and design and make a switch to control the circuit testing different materials (such as metal paper clips, nails, wire, steelwool, coins, plastic, glass, ceramic, cardboard, paper, wood, rubber, chalk) in an electric circuit to see if they are conductors or insulators, and recording the results on a table Designing, making, evaluating and presenting a system that uses a circuit to produce movement, light, sound or heat in a structure such as a steady hand game, house, light house or a toy. The circuit should include components such as cell/s, light bulb/s, buzzer/s, and switch/es
TERM 4	 Investigating - observing and recording the changing shape of light on the Moon each night for at least a month (Moon watch) Designing, making and evaluating a rocket model using a balloon attach a balloon to a drinking straw threaded onto a fishing line pulled tight between two points release the inflated balloon and measure how far it travels along the fishing line. Draw bar graphs and evaluate different balloon rockets 	 Investigating – different soil types writing and drawing about the colour, smell and texture of the soil measuring and recording on a table how much water different soils can hold using the results to draw bar graphs Investigating – growing seedlings in different soil types measuring, recording and comparing the heights of the seedlings using the results to draw bar graphs 	Researching the key features and purposes of the Mars or Moon Rovers including wheels and axles, cameras, mechanical arms, and systems for using solar energy and communications Designing, making and evaluating a model of one of these vehicles which can move by means of wheels and axles, measuring how far the different vehicles can run down a ramp and draw bar graphs