



**SCIENCE SCHEME OF WORK FOR PRIMARY SEVEN TERMS I, II AND III.**

W K	PD	TOPIC	SUB TOPIC	CONTENT	COMPETENCES	METHO DS	L/AIDS	L/T ACTS	SKILLS/ VALUES	REFERENC E (S)	REM
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1	1	<b>THE SKELETAL AND MUSCULAR</b>	<p><b>The Skeleton</b></p> <ul style="list-style-type: none"> <li>- Definition of a skeleton.</li> <li>- Functions of a skeleton.</li> <li>- The types of skeleton.</li> <li>- The human skeleton</li> <li>- The four main parts of a human skeleton</li> <li>- NOTE: the human skeleton is made up of 206 bones.</li> </ul> <p><u><b>Types of bones</b></u></p> <ul style="list-style-type: none"> <li>- Long, short, flat, irregular and where they are found.</li> </ul>	<p><b>By the end of the lesson, the learner should be able to:</b></p> <ul style="list-style-type: none"> <li>- Define a skeleton</li> <li>- Mention types of a skeleton</li> <li>- List and describe the functions of the skeleton</li> <li>- Draw and name the parts of the human skeleton.</li> <li>- Identify the four major parts of the human skeleton.</li> <li>- List types of bones with examples - Define joints.</li> </ul>	<p>Discussion Discovery Demonstration Observation Question and answer Technique</p>	<p>Charts showing the human Skeleton</p> <p>Charts showing the types of bones.</p>	<p>Drawing Answering Both oral and written question</p>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Effective communication</li> <li>- Appreciation</li> <li>- Problem solving</li> </ul>	<p>Fountain primary Science Bk 4 pg 54 – 58</p> <p>Comprehensive primary Science BK 4 pg 93 – 99</p> <p>MK Inter Primary Science Bk 4 pgs 63 – 70</p> <p>Basic primary Science BK pgs 72 – 75</p>	
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		<b>SYSTEM</b>		<ul style="list-style-type: none"> <li>- types of joints</li> </ul> <p><b><u>Joints</u></b></p> <ul style="list-style-type: none"> <li>- Types of joints</li> <li>(i) Description</li> <li>(ii) Examples</li> <li>(iii) Illustration</li> <li>(iv) Functions of the parts</li> <li>(v) Where they are found.</li> </ul>	<ul style="list-style-type: none"> <li>- Mention the two types of joints and give examples including where they are found.</li> <li>- Define muscles</li> <li>- Name the types of muscles and their examples</li> <li>- Identify the functions of the muscles in the body.</li> </ul>						
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				<p><b>Muscles</b></p> <ul style="list-style-type: none"> <li>- Definition of a muscle. (muscles are fibrous tissues that are attached to bones in the body)</li> </ul> <p><b>Types of muscles</b></p> <ul style="list-style-type: none"> <li>(i) Voluntary and Involuntary</li> <li>(ii) draw voluntary muscles</li> <li>(iii) Examples Of each type of muscles.</li> <li>(iv) Functions of muscles</li> </ul> <p><b>Posture</b></p> <ul style="list-style-type: none"> <li>- Definition</li> <li>- Importance of a good posture</li> <li>- Dangers of bad posture</li> </ul>	<p><b>By the end of the lessons, the learner should be able to</b></p> <ul style="list-style-type: none"> <li>- Describe a posture</li> <li>- List the importance of a good posture</li> <li>- Identify the dangers of a bad body posture</li> <li>- List diseases and disorders related to the muscles and skeleton including their cause, prevention, control and treatment.</li> </ul>	<p>Charts showing the types of muscles</p>	<p>Drawing Answering Both oral and written question</p> <p>Drawing Answering Both oral and written question</p>	<ul style="list-style-type: none"> <li>- Critical thinking -Effective communication</li> <li>- Appreciation</li> <li>- Problem solving</li> </ul> <ul style="list-style-type: none"> <li>- Critical thinking -Effective communication</li> <li>- Appreciation</li> <li>- Problem solving</li> </ul>	<p>Basic primary Science BK pgs 72 – 75</p> <p>MK Inter Primary Science Bk 4 pgs 63 – 70</p> <p>Fountain primary Science Bk 4 pg 54 – 58</p>	
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				<ul style="list-style-type: none"> <li>- Diseases and disorders related to the skeletal and muscular system. How to maintain proper skeletal and muscular system.</li> </ul>			Good Posture				
<b>4</b>	<b>1, 2 &amp; 3</b>	<b>FORMS OF ENERGY</b>	<b>Electricity</b>	<ul style="list-style-type: none"> <li>+ Definition of energy</li> <li>+ Forms of energy</li> <li>+ Definition of electricity</li> <li>+ Uses of electricity</li> <li>+ Advantages and disadvantages of electricity</li> <li>+ Dangers of using electricity</li> <li>+ Electricity appliances</li> </ul>	<p><b>The Learner should be able to:-</b></p> <p><b>List down forms of energy.</b></p> <ul style="list-style-type: none"> <li>+ Define energy.</li> <li>+ Define electricity.</li> <li>+ State the uses of electricity.</li> <li>+ Identify the advantages and disadvantages of using electricity</li> <li>+ Name the appliances that use electricity</li> </ul>	<ul style="list-style-type: none"> <li>+ Guided discussion</li> <li>+ Question and answer</li> <li>+ Discovery</li> </ul>	<ul style="list-style-type: none"> <li>+ CB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>+ Writing notes</li> <li>+ Listing uses of electricity</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>+ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>+ MK integrated scie bk7</li> <li>+ Fountain integrated scie bk7</li> <li>+ A comprehensive guide for integrated scie bk7</li> </ul>	

4 & 5	FORM S OF		<ul style="list-style-type: none"> <li>Types of electricity.</li> <li>Forms of electricity Static electricity and current electricity</li> <li>Definition of static and current electricity.</li> <li>How to produce static electricity.</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Name the forms of electricity and how they are produced</li> <li>Give the difference b/n current and static electricity</li> </ul>	<ul style="list-style-type: none"> <li>Explanation</li> <li>Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Rulers</li> <li>Paper</li> <li>Textbooks</li> </ul>	<ul style="list-style-type: none"> <li>Naming forms of electricity</li> </ul>		<ul style="list-style-type: none"> <li>MK integrated scie bk7</li> <li>Fountain integrated scie bk7 A comprehensive guide for integrated scie bk7</li> </ul>	
			<ul style="list-style-type: none"> <li>Examples of static electricity in nature Lightning and thunder</li> <li>Dangers of lightning How the dangers can be controlled</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>State 2 examples of static electricity</li> <li>Name the dangers of lightning</li> <li>Explain how lightning can be controlled</li> </ul>	<ul style="list-style-type: none"> <li>Questioning</li> <li>Discussion</li> <li>Answering</li> </ul>	<ul style="list-style-type: none"> <li>Textbooks</li> <li>BB sketches</li> </ul>	<ul style="list-style-type: none"> <li>Taking notes</li> <li>Listening</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie bk7</li> <li>Fountain integrated scie bk7 A comprehensive guide for</li> </ul>	

8	ENERGY								integrated scie bk7	
			<u>Current electricity</u> <ul style="list-style-type: none"> <li>Definition</li> <li>Types (i.e. DC &amp; AC)</li> <li>Sources of energy for generating electricity (water, sun, fossil fuels), uranium hot springs.</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Define current electricity</li> <li>Identify the types of current electricity</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Explanation</li> <li>Question and answer</li> </ul>	<ul style="list-style-type: none"> <li>Charts</li> <li>Textbooks</li> </ul>	<ul style="list-style-type: none"> <li>Writing</li> <li>Answering</li> <li>oral and written qns</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie bk7</li> <li>Fountain integrated scie bk7 A comprehensive guide for integrated scie bk7</li> </ul>	

				<ul style="list-style-type: none"> <li>Name energy resources for generating electricity</li> </ul>						
5	1		<u>An electric circuit</u> <ul style="list-style-type: none"> <li>Definition of a circuit</li> <li>Types of circuits.</li> <li>Parts and uses of the circuit</li> <li>Flow of current and flow of electrons</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Define a circuit</li> <li>Identify types of circuits</li> <li>Name the parts and uses of a circuit</li> <li>Differentiate b/n flow of current and flow of electricity</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Explanation</li> </ul>	<ul style="list-style-type: none"> <li>Cells</li> <li>Bulbs</li> <li>Wires</li> </ul>	<ul style="list-style-type: none"> <li>Drawing</li> <li>Experimenting</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie bk7</li> <li>Fountain integrated scie bk7</li> <li>Supplementary science std 8</li> </ul>	
	2 & 3		<ul style="list-style-type: none"> <li>Symbols used in an electric circuit</li> <li>Energy changes in a circuit</li> <li>Cells (batteries)/ electrolytes</li> <li>Types of cells (prim &amp; secondary)</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Identify the symbols used in a circuit</li> <li>Mention the different energy changes in a circuit</li> <li>Identify types of cells</li> <li>Name the examples</li> </ul>	<ul style="list-style-type: none"> <li>Question and answer</li> <li>Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Charts</li> <li>Old cells</li> </ul>	<ul style="list-style-type: none"> <li>Drawing</li> <li>Writing notes</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie bk7</li> <li>Fountain integrated scie bk7</li> <li>Supplementary science std 8</li> </ul>	

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				of cells						
<b>4</b>			<ul style="list-style-type: none"> <li>Parts of a cell and their uses</li> <li>Calculating the voltage of a circuit</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Name the parts of a cell and their uses</li> <li>Do simple calculations on voltage</li> </ul>	<ul style="list-style-type: none"> <li>Observation</li> <li>Discussion</li> <li>Discovery</li> </ul>	<ul style="list-style-type: none"> <li>Old cells</li> <li>Charts</li> </ul>	<ul style="list-style-type: none"> <li>Drawing</li> <li>Writing notes</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie bk7</li> <li>Fountain integrated scie bk7</li> <li>Supplementary science std 8</li> </ul>	

<b>5</b>	<b>FORMS OF ENERGY</b>		<b>Bulb</b> <ul style="list-style-type: none"> <li>Parts and their uses</li> <li>Energy changes in a bulb</li> <li>Reasons why a bulb may fail to work when the circuit is complete</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Define a bulb</li> <li>Identify the parts of a bulb and their uses</li> <li>Give the reasons why bulbs may fail to work even when the circuit is complete</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Explanation</li> <li>Questioning</li> </ul>	<ul style="list-style-type: none"> <li>Charts</li> <li>Textbooks</li> <li>BB sketches</li> </ul>	<ul style="list-style-type: none"> <li>Observing</li> <li>Drawing</li> <li>Naming parts of a bulb</li> </ul>	<ul style="list-style-type: none"> <li></li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie bk7</li> <li>Fountain integrated scie bk7</li> <li>Supplementary science std 8</li> </ul>	
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6	GY		<ul style="list-style-type: none"><li>✦ Short circuits (definition)</li><li>✦ Causes and prevention</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>✦ Explain short circuits</li><li>✦ State the causes and prevention of short circuits</li></ul>	<ul style="list-style-type: none"><li>✦ Explanation</li><li>✦ Discovery</li></ul>	<ul style="list-style-type: none"><li>✦ BB sketches</li><li>✦ Taking notes</li></ul>	<ul style="list-style-type: none"><li>✦ Taking notes</li></ul>	<ul style="list-style-type: none"><li>✦ MK integrated scie bk7</li><li>✦ Fountain integrated scie bk7</li><li>✦ Supplementary science std 8</li></ul>		
7			<ul style="list-style-type: none"><li>✦ Conductors (definition)</li><li>✦ Insulators (definition)</li><li>✦ Uses of conductors and insulators</li><li>✦ Examples of conductors and insulators</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>✦ Define conductors and insulators</li><li>✦ Give examples of conductors and insulators</li><li>✦ Identify the uses of conductors and insulators</li></ul>	<ul style="list-style-type: none"><li>✦ Discussion</li><li>✦ Explanation</li><li>✦ Experimenting</li></ul>	<ul style="list-style-type: none"><li>✦ Wires</li><li>✦ Charts</li><li>✦ Plastics</li></ul>	<ul style="list-style-type: none"><li>✦ Carrying out experiments</li><li>✦ Taking notes</li></ul>	<ul style="list-style-type: none"><li>- Critical thinking</li><li>- Appreciation</li><li>- Problem solving</li><li>✦ Effective communication</li></ul>	<ul style="list-style-type: none"><li>✦ Fountain integrated scie Bk7</li><li>✦ Supplementary science std 8</li></ul>	
8			<u>The electric torch</u> <ul style="list-style-type: none"><li>✦ How a torch works</li><li>✦ Reasons why a torch may fail to work</li><li>✦ Plugs and sockets</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>✦ Identify the parts of a torch and their uses</li><li>✦ Give reasons why a torch may fail to work</li><li>✦ State the use of plugs and sockets</li></ul>	<ul style="list-style-type: none"><li>✦ Discussion</li><li>✦ Question and answer</li><li>✦ Observation</li></ul>	<ul style="list-style-type: none"><li>✦ Torches</li><li>✦ Cells</li><li>✦ Plugs</li><li>✦ Sockets</li></ul>	<ul style="list-style-type: none"><li>✦ Drawing</li><li>✦ Doing an experiment</li></ul>	<ul style="list-style-type: none"><li>✦ Fountain integrated scie Bk7</li><li>✦ Supplementary science std 8</li></ul>		

6	1 & 2	FORMS OF ENERGY		<ul style="list-style-type: none"><li>+ Production of electricity – <i>motors, generators, dynamos, transformers</i></li><li>+ Measurement of power and electricity</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>+ State 2 ways of generating electricity</li><li>+ Mention how power and electricity are measured</li></ul>	<ul style="list-style-type: none"><li>+ Explanation</li><li>+ Discussion</li></ul>	<ul style="list-style-type: none"><li>+ Charts</li><li>+ BB illustrations</li></ul>	<ul style="list-style-type: none"><li>+ Taking notes</li><li>+ Written exercise</li></ul>		<ul style="list-style-type: none"><li>+ MK integrated scie Bk7 Fountain integrated scie Bk7 Comprehensive guide to Integrated Scie</li></ul>	
	3 & 4		Magnetism	<ul style="list-style-type: none"><li>+ Definition of a magnet and magnetism</li><li>+ Magnetic and non magnetic materials</li><li>+ Alloys – definition</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>+ Definition of a magnet</li><li>+ Differentiate b/n a magnet and magnetism</li><li>+ Identify magnetic and non magnetic materials</li><li>+ Explain alloys</li></ul>	<ul style="list-style-type: none"><li>+ Discussion</li><li>+ Explanation</li><li>+ Questioning</li></ul>	<ul style="list-style-type: none"><li>+ BB illustrations</li></ul>	<ul style="list-style-type: none"><li>+ Taking notes</li><li>+ Drawing</li><li>+ Naming materials</li></ul>	<ul style="list-style-type: none"><li>- Critical thinking</li><li>- Appreciation</li><li>- Problem solving</li><li>+ Effective communication</li></ul>	<ul style="list-style-type: none"><li>+ MK integrated scie Bk7 Fountain integrated scie Bk7 Comprehensive guide to Integrated Scie</li></ul>	
	5			<ul style="list-style-type: none"><li>+ Types of magnets (natural and artificial)</li><li>+ Properties of magnets</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>+ Identify properties of magnets</li><li>+ Name types of magnets</li></ul>	<ul style="list-style-type: none"><li>+ Discussion</li><li>+ Explanation</li></ul>	<ul style="list-style-type: none"><li>+ Magnets</li><li>+ Charts</li></ul>	<ul style="list-style-type: none"><li>+ Taking notes</li></ul>		<ul style="list-style-type: none"><li>+ MK integrated scie Bk7 Fountain integrated scie Bk7 Comprehensive guide to Integrated Scie</li></ul>	

6		<ul style="list-style-type: none"> <li>Permanent and temporary magnets</li> <li>Examples of each type of magnet</li> <li>Magnetic lines of force</li> <li>Magnetic field</li> <li>Illustration of magnetic fields</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Differentiate between temporary and permanent magnets</li> <li>Give examples of each type of magnet</li> <li>Define magnetic lines and magnetic field</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Question and answer</li> <li>Explanation</li> <li>Experimentation</li> </ul>	<ul style="list-style-type: none"> <li>Charts</li> <li>Magnets</li> </ul>	<ul style="list-style-type: none"> <li>Taking notes</li> <li>Demonstrating</li> <li>Drawing</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie Bk7</li> <li>Fountain integrated scie Bk7</li> </ul>	
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	<b>7 &amp; 8</b>			<ul style="list-style-type: none"> <li>Ways of making magnets</li> <li>How to improve the strength of electro magnets</li> <li>Ways of demagnetizing a magnet</li> <li>Uses of magnets in daily life</li> <li>Devices which use magnets</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Make simple magnets</li> <li>Identify examples of magnets made</li> <li>State the uses of magnets in daily life</li> </ul>	<ul style="list-style-type: none"> <li>Explanation</li> <li>Experimentation</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Magnets</li> <li>Cells</li> <li>Wires</li> <li>Magnetic materials</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrating</li> <li>Taking notes</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>Fountain integrated science Bk7</li> <li>Supplementary science std 8</li> </ul>	
	<b>1</b>	<b>TOPICAL REVISION QUESTIONS AND DIAGRAMS</b>									
<b>7</b>	<b>2</b>	<b>THE ENVIRONMENT</b>	<b>Energy resources</b>	<ul style="list-style-type: none"> <li>Definition of environment</li> <li>Components of the environment</li> <li>Definition of energy, resource and energy resource</li> <li>Examples of energy resources</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Define the term environment</li> <li>Identify the components of the environment</li> <li>Differentiate between energy and energy resource</li> <li>Name examples of energy resource</li> </ul>	<ul style="list-style-type: none"> <li>Explanation</li> <li>Demonstration</li> <li>Discussion</li> </ul>	<ul style="list-style-type: none"> <li>BB illustrations</li> <li>Sketches</li> </ul>	<ul style="list-style-type: none"> <li>Taking notes</li> <li>Answering oral and written questions</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated science Bk7</li> <li>Fountain integrated science Bk7</li> <li>Comprehensive guide to Integrated Science</li> </ul>	

3		<ul style="list-style-type: none"> <li>Types of energy resources</li> <li>(renewable and non renewable)</li> <li>Examples of each type of energy resource</li> <li>Soil as a resource</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Identify the types of energy resources</li> <li>Give the examples of each type of energy resource</li> <li>Explain how soil is a resource</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Question and answer</li> <li>Explanation</li> </ul>	<ul style="list-style-type: none"> <li>BB sketches</li> </ul>	<ul style="list-style-type: none"> <li>Answering oral qns</li> <li>Filling in exercise</li> </ul>		<ul style="list-style-type: none"> <li>MK integrated scie Bk7</li> <li>Fountain integrated scie Bk7</li> <li>Complete junior physics</li> </ul>	
	4	<ul style="list-style-type: none"> <li>Fossil fuels as resources</li> <li>Definition of fossils</li> <li>Examples of fossils</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Explain how minerals are energy resources</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Explanation</li> </ul>	<ul style="list-style-type: none"> <li>Charts</li> <li>BB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>Taking notes</li> </ul>		<ul style="list-style-type: none"> <li>MK integrated scie Bk7</li> <li>Supplementary science BK7</li> </ul>	

5		<ul style="list-style-type: none"> <li>Uranium as an energy resource</li> </ul>	<ul style="list-style-type: none"> <li>Define fossils</li> <li>Identify e.g.s of fossils</li> </ul>						
		<ul style="list-style-type: none"> <li>The sun as an energy resource</li> <li>Water as an energy resource</li> <li>Animals as energy resources</li> <li>Plants as energy resources</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Identify the resources in the environment</li> <li>Explain how the examples above act as resources</li> </ul>	<ul style="list-style-type: none"> <li>Guided discussion</li> <li>Explanation</li> <li>Question and answer</li> </ul>	<ul style="list-style-type: none"> <li>BB sketches</li> <li>Textbooks</li> </ul>	<ul style="list-style-type: none"> <li>Naming examples of resource</li> <li>Taking notes</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie Bk7</li> <li>Supplementary science BK7</li> </ul>	

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	6 & 7			<ul style="list-style-type: none"><li>+ <u>ervation</u> Definition of conservation</li><li>+ Different ways of conserving</li><li>+ conserving different energy resources</li><li>+ Biogas production</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>+ Define the term conservation</li><li>+ State different ways of conserving resources</li><li>+ Explain how biogas is produced</li></ul>	<ul style="list-style-type: none"><li>+ Questioning</li><li>+ Explanation</li><li>+ Discussion</li></ul>	<ul style="list-style-type: none"><li>+ BB illustrations</li><li>+ Textbooks</li><li>+ Charts</li></ul>	<ul style="list-style-type: none"><li>+ Answering orally</li><li>+ Taking notes</li><li>+ Drawing</li></ul>	<ul style="list-style-type: none"><li>+ MK integrated scie Bk7</li><li>+ Fountain integrated scie Bk7</li></ul>		
8	1 & 2	THE ENVIRONMENT	<b>Controlling and managing changes in the environment</b>	<ul style="list-style-type: none"><li>+ Conservation of</li><li>+ Importance of conservation practices</li><li>+ Environmental degradation of</li><li>+ Examples of environmental degradation</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>+ Define conservation</li><li>+ State the importance of conservation practices</li><li>+ Give examples of environmental degradation</li></ul>	<ul style="list-style-type: none"><li>+ Explanation</li><li>+ Discussion</li><li>+ Question and answer</li></ul>	<ul style="list-style-type: none"><li>+ BB illustrations</li><li>+ Textbooks</li></ul>	<ul style="list-style-type: none"><li>+ Writing notes</li></ul>	<ul style="list-style-type: none"><li>- Critical thinking</li><li>- Appreciation</li><li>- Problem solving</li><li>+ Effective communication</li></ul>	<ul style="list-style-type: none"><li>+ MK integrated scie Bk7</li><li>+ Fountain integrated scie Bk7</li></ul>	
	3 & 4			<ul style="list-style-type: none"><li>+ Causes of environmental degradation</li><li>+ Natural and artificial activities of</li><li>+ Effects of environmental degradation</li><li>+ Measures to control degradation</li></ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"><li>+ Mention causes of environmental degradation</li><li>+ Identify the effects of degradation</li><li>+ State control measures</li></ul>	<ul style="list-style-type: none"><li>+ Guided discussion</li></ul>	<ul style="list-style-type: none"><li>+ Sketch illustrations</li></ul>	<ul style="list-style-type: none"><li>+ </li></ul>	<ul style="list-style-type: none"><li>+ </li></ul>	<ul style="list-style-type: none"><li>+ MK integrated scie Bk7</li><li>+ Fountain integrated scie Bk7</li></ul>	

5		Agro – forestry	<b>The Learner should be able to:-</b>	+ Explanation	+ Charts	+ Answering or al	- Critical thinking	+ Introduction to Biology	
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			<ul style="list-style-type: none"> <li>+ Definition of agro-forestry</li> <li>+ Importance of agro-forestry</li> <li>+ Tree nursery beds</li> <li>+ Activities in the tree nursery bed and care</li> </ul>	<ul style="list-style-type: none"> <li>+ Define agro-forestry</li> <li>+ Identify the importance of agroforestry</li> <li>+ Explain how to make a tree nursery bed</li> <li>+ State the activities in the tree nursery bed</li> </ul>	<ul style="list-style-type: none"> <li>+ Discussion</li> <li>+ Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>+ Textbooks</li> </ul>	<ul style="list-style-type: none"> <li>and written questions</li> <li>Taking notes</li> </ul>	<ul style="list-style-type: none"> <li>- Appreciation</li> <li>- Problem solving</li> <li>+ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>+ Supplementary science std8</li> </ul>	
6	<b>THE ENVIR</b>		<ul style="list-style-type: none"> <li>+ Harvesting trees</li> <li>+ Conservation of wood</li> <li>+ Importance of rural electrification</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>+ State methods of harvesting trees for wood</li> <li>+ Name methods of conserving wood fuel</li> <li>+ State the importance of rural electrification</li> </ul>	<ul style="list-style-type: none"> <li>+ Explanation</li> <li>+ Discussion</li> </ul>	<ul style="list-style-type: none"> <li>+ Charts</li> <li>+ Textbooks</li> </ul>	<ul style="list-style-type: none"> <li>+ Answering or al questions</li> <li>+ Explanation</li> </ul>	<ul style="list-style-type: none"> <li>+ </li> </ul>	<ul style="list-style-type: none"> <li>+ Introduction to Biology</li> <li>+ Supplementary science std8</li> </ul>	

	<b>7 &amp; 8</b>	<b>ONMENT</b>	<b>ENVIRONMENTAL DEGRADATION</b>	<u>Land fragmentation and its definition</u> <ul style="list-style-type: none"> <li>Causes of land fragmentation</li> <li>Soil conservation</li> <li>Importance of soil conservation and practices</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Define land fragmentation</li> <li>Identify the causes of fragmentation</li> <li>State importance of soil conservation and practices</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Explanation</li> </ul>	<ul style="list-style-type: none"> <li>Textbooks</li> <li>BB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>Discussing in groups</li> <li>Explanation of terms</li> <li>Taking notes</li> </ul>	+	<ul style="list-style-type: none"> <li>Fountain integrated science bk7</li> <li>Supplementary science std 8</li> </ul>	
<b>9</b>	<b>1 &amp; 2</b>			<u>Wetlands</u> <ul style="list-style-type: none"> <li>Definition of wetlands</li> <li>Examples of wetlands</li> <li>Importance of wetlands</li> <li>Wetland degradation</li> <li>Why people drain wetlands</li> <li>Effects of wetland drainage</li> <li>How wetlands can be protected</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Define the term wetlands</li> <li>Name examples of wetlands</li> <li>State the importance of wetlands</li> <li>Give ways of controlling wetland abuse</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Question and answer</li> </ul>	<ul style="list-style-type: none"> <li>CB sketches</li> <li>Textbooks</li> <li>BB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>Taking notes</li> <li>Answering</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie Bk7</li> <li>Fountain integrated scie Bk8</li> </ul>	



3			<ul style="list-style-type: none"> <li>+ <u>Bio-diversity</u> (definition)</li> <li>+ Importance of bio-diversity</li> <li>+ Extinction of endangered species</li> <li>+ Control of loss of biodiversity</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>+ Define bio-diversity</li> <li>+ State the importance of bio-diversity</li> <li>+ Give 4 examples of endangered species</li> </ul>	<ul style="list-style-type: none"> <li>+ Discussion</li> <li>+ Explanation</li> <li>+ Questioning</li> </ul>	<ul style="list-style-type: none"> <li>+ Textbooks</li> <li>+ CB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>+ Taking notes</li> <li>+ Discussing in groups</li> </ul>		<ul style="list-style-type: none"> <li>+ Supplementary science std 8</li> <li>+ MK integrated science Bk7</li> </ul>	
4 & 5	<b>THE ENVIRONMENT</b>		<ul style="list-style-type: none"> <li>+ <u>Pollution</u> (definition)</li> <li>+ Pollutants</li> <li>+ Examples of pollutants</li> <li>+ Types of pollution (air, water, soil, sound)</li> <li>+ Effects of pollution.</li> <li>+ Control measures of pollution</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>+ Tell the meaning of pollution</li> <li>+ Give examples of pollutants</li> <li>+ State the types of pollution</li> <li>+ Identify control measures of pollution</li> </ul>	<ul style="list-style-type: none"> <li>+ Question and answer technique</li> <li>+ Discussion</li> </ul>	<ul style="list-style-type: none"> <li>+ Polythene bags</li> <li>+ Chemicals</li> <li>+ Old bottles and tins</li> </ul>	<ul style="list-style-type: none"> <li>+ Answering oral questions</li> <li>+ Taking notes</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>+ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>+ Supplementary science std 8</li> <li>+ MK integrated science Bk7</li> </ul>	
6			<ul style="list-style-type: none"> <li>+ Management of solid wastes</li> <li>+ 5R's in waste management (Reuse, Reduce, Return, Refuse, Reject)</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>+ Define the term recycling</li> <li>+ Identify ways of waste management using the 5 R's</li> </ul>	<ul style="list-style-type: none"> <li>+ Explanation</li> <li>+ Discussion</li> </ul>	<ul style="list-style-type: none"> <li>+ Textbooks</li> <li>+ Polythene bags</li> <li>+ Jerrycans</li> </ul>	<ul style="list-style-type: none"> <li>+ Defining</li> <li>+ Answering oral questions</li> </ul>		<ul style="list-style-type: none"> <li>+ MK integrated science Bk7</li> <li>+ Fountain integrated science Bk7</li> </ul>	

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7 & 8		<ul style="list-style-type: none"> <li>+ Way forward to overcome environmental problems in Uganda</li> <li>+ Roles of NEMA Community and environmental involvement</li> </ul>	<p><b>The Learner should be able to:-</b></p> <ul style="list-style-type: none"> <li>+ Identify ways to overcome environmental problems in Uganda</li> <li>+ State 2 roles of NEMA and roles of the community in environmental management</li> </ul>	<ul style="list-style-type: none"> <li>+ Questioning technique</li> <li>+ Discussion</li> </ul>	<ul style="list-style-type: none"> <li>+ Charts</li> <li>+ BB work</li> <li>+ Cut outs from newspapers</li> </ul>	<ul style="list-style-type: none"> <li>+ Taking notes</li> <li>+ Filling in blanks</li> <li>+ Answering written questions</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>+ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>+ MK integrated scie Bk7</li> <li>+ Fountain integrated scie Bk7</li> </ul>	
		<b>TOPICAL REVISION QUESTIONS AND DIAGRAMS</b>							

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<b>1 9</b>	<b>1</b>	<b>MATTER AND ENERGY</b>	<b>SIMPLE MACHINES</b>	<ul style="list-style-type: none"> <li>- Meaning of machines</li> <li>- Types of machines</li> <li>- Complex machines</li> <li>- Simple machines</li> <li>- Advantages of machines</li> <li>- Terms used in machines (work, force, power)</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- Explain the term machine</li> <li>- State the different types of machines</li> <li>- State advantages of machines</li> <li>- Describe terms used in machines.</li> </ul>	<ul style="list-style-type: none"> <li>- Explanation</li> <li>- Discussion</li> <li>-</li> </ul>	- C/board illustrations	- Taking notes	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>- Effective communication</li> </ul>	- Comprehensive Primary Science Bk 7.	-
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7			<ul style="list-style-type: none"> <li>- Calculating work done.</li> <li>- Simple machines</li> <li>- Definitions</li> <li>- Terms used in simple machines.</li> <li>- (MA) velocity, ration, efficiency, load, effort, load, arm, effort arm, pivot (fulcrum)</li> <li>- Classification(order) of simple machines</li> <li>- Levers – pulleys</li> <li>- Wheel and axel – wedges</li> <li>- Screws, inclined plane (slope)</li> </ul> <p><b>Levers:</b></p> <ul style="list-style-type: none"> <li>- Definition</li> <li>- Classes of levers (1st 2<sup>nd</sup>, 3<sup>rd</sup> class levers)</li> <li>- Characteristics and examples of each class.</li> <li>- Advantages of each class.</li> </ul>	<p><b>The Learner should be able to:</b></p> <ul style="list-style-type: none"> <li>- Calculate work done in machines</li> <li>- Define different terms used in machines i.e. M.A, V.R</li> <li>- Efficiency, load, effort, E.A, L.A</li> <li>- Name the different examples of simple machines.</li> <li>- Define levers</li> <li>- Mention different classes of levers</li> <li>- Identify the examples and characteristics of each class of levers.</li> </ul>	<ul style="list-style-type: none"> <li>- Discussion</li> <li>- Observation</li> <li>- Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>- Charts</li> <li>- C/board illustration</li> <li>- Pulleys wheels gears rollers</li> <li>- Scissors</li> <li>- Pliers</li> <li>- Spades</li> <li>- Knives</li> <li>- Wheel barrow</li> <li>- Metal rods</li> </ul>	<ul style="list-style-type: none"> <li>- Writing</li> <li>- Drawing</li> <li>- Answering oral questions</li> <li>- Demonstrating how machines work</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>- Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>- Functional Primary Science Bk 7</li> <li>- Comprehensive Primary Science Bk 7.</li> <li>- New Uganda Primary Integrated Science Bk 7</li> </ul>	-
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20	2			<ul style="list-style-type: none"> <li>- Law of levers</li> <li>- Calculations on levers</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- State the law of levers</li> <li>- Carry out calculations on levers</li> </ul>	<ul style="list-style-type: none"> <li>- discussion</li> <li>- discovery</li> </ul>	<ul style="list-style-type: none"> <li>- C/board illustration</li> </ul>	<ul style="list-style-type: none"> <li>- Writing exercises on calculations</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>- MK integrated Primary Science Bk 7</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>
	2		INCLINED PLANES	<ul style="list-style-type: none"> <li>- <b>Inclined plane:</b></li> <li>- Definition</li> <li>- Examples of inclined planes</li> <li>- Advantages of using slopes/inclined plane</li> <li>- Application in daily life</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- Define an inclined plane</li> <li>- State examples of inclined planes</li> <li>- Mention advantages of using slopes/inclined planes.</li> </ul>	<ul style="list-style-type: none"> <li>- Explanation</li> <li>- Discussion</li> <li>- Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>- Planks</li> <li>- Strings</li> <li>- Stones</li> <li>- Tables</li> </ul>	<ul style="list-style-type: none"> <li>- Doing practical work</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>- Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>- Fountain Integrated Primary Science Bk 7</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>
21	2	MATTER AND ENERGY		<ul style="list-style-type: none"> <li>- Calculations on inclined planes.</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- Carry out calculations on planes</li> </ul>	<ul style="list-style-type: none"> <li>- Explanation</li> <li>- Practice drill</li> <li>- Discovery</li> </ul>	<ul style="list-style-type: none"> <li>- Chalk board illustrations and sketches</li> </ul>	<ul style="list-style-type: none"> <li>- Writing exercises</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>	<ul style="list-style-type: none"> <li>- Oxford Primary Science Bk 7</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>
	1		WEDGES	<ul style="list-style-type: none"> <li>- <b>Wedges:</b></li> <li>- Definition of wedges</li> <li>- Examples of wedges</li> <li>- Advantages of using wedges</li> <li>- Application of wedges in daily life</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- Define a wedge</li> <li>- Mention the advantages of using screws</li> <li>- State examples of machines that</li> </ul>	<ul style="list-style-type: none"> <li>- Discussion</li> <li>- Explanation</li> <li>- Observation</li> </ul>	<ul style="list-style-type: none"> <li>- Screws</li> <li>- Charts</li> <li>- Nuts</li> <li>- Bolts</li> <li>- Charts</li> </ul>	<ul style="list-style-type: none"> <li>- Carrying out an experiment</li> <li>- Writing notes</li> <li>- drawing diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>- Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>- Functional Primary Science for Uganda Bk 7</li> <li>- MK integrated Primary Science Bk. 7</li> </ul>	<ul style="list-style-type: none"> <li>-</li> </ul>

					use screws in daily life.						
	<b>1</b>		<b>SCREWS</b>	<b>Screws:</b> <ul style="list-style-type: none"> <li>- Definition of screws</li> <li>- Advantages of using screws</li> <li>- Application of screws in daily life</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- Mention the advantages of using screws</li> <li>- State examples of machines that use screws in daily life</li> </ul>	<ul style="list-style-type: none"> <li>- discussion</li> <li>- explanation</li> <li>- observation</li> </ul>	<ul style="list-style-type: none"> <li>- screws</li> <li>- charts - nuts</li> <li>- bolts</li> <li>- charts</li> </ul>	<ul style="list-style-type: none"> <li>- carrying out an experiment</li> <li>- writing notes</li> <li>- drawing diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>- Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>- MK integrated Primary Science Bk 7</li> <li>- Fountain Integrated Science Bk 7</li> </ul>	-
<b>2</b>	<b>4</b>		<b>WHEEL AND AXLE</b>	<b>Wheel and axle:</b> <ul style="list-style-type: none"> <li>- Definition</li> </ul>	<b>The Learner should be able to:</b>	<ul style="list-style-type: none"> <li>- Explanation</li> <li>- Discussion</li> <li>- Discovery</li> </ul>	<ul style="list-style-type: none"> <li>- Wheel</li> <li>- Bolts</li> <li>- Charts</li> </ul>	<ul style="list-style-type: none"> <li>- Group discussion</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> </ul>	<ul style="list-style-type: none"> <li>- Oxford Primary Science Bk 7</li> </ul>	-

				<ul style="list-style-type: none"> <li>- Examples of wheel and axle eg windlass, steering wheel, etc</li> <li>- Advantages of using the wheel and axle.</li> <li>- Application of wheels and axle in daily life</li> </ul>	<ul style="list-style-type: none"> <li>- Define a wheel and axle.</li> <li>- Mention examples of machines that use the wheel and axle</li> <li>- Identify the advantages of using the wheel and axle.</li> </ul>			<ul style="list-style-type: none"> <li>- Taking notes</li> <li>- Drawing</li> <li>- Answering oral questions</li> </ul>	<ul style="list-style-type: none"> <li>- Problem solving</li> <li>- Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>- Comprehensive Primary Science Bk 7</li> </ul>	
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2 3			<b>WHEELS AND BELTS</b>	<b>Wheels and belts:</b> <ul style="list-style-type: none"> <li>- Definition</li> <li>- Examples of machines that use conveyor belts e.g. sewing machines, vehicles, factories, quarries, etc</li> <li>- <b>Gears/toothed wheels</b> - Importance</li> <li>- Examples of machines that use gears eg watches, gear box in vehicles, etc</li> <li>- Rotation of two or more gear wheels in contact.</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- Define conveyor belts</li> <li>- Mention machines that use conveyor belts</li> <li>- Mention examples of machines that use gears/toothed wheels</li> <li>- State the advantage of using conveyor belts, gears and toothed wheels.</li> </ul>	<ul style="list-style-type: none"> <li>- Discussion</li> <li>- Explanation</li> <li>- Demonstration</li> <li>- Observation</li> <li>- Discovery</li> <li>- Application</li> </ul>	<ul style="list-style-type: none"> <li>- Wheels (pulleys)</li> <li>- Rubber bands</li> <li>- Charts</li> <li>- Toothed wheels</li> <li>- chalk boards sketches</li> </ul>	<ul style="list-style-type: none"> <li>- taking notes</li> <li>- drawing diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> </ul>	<ul style="list-style-type: none"> <li>- Comprehensive Primary Science Bk 7</li> <li>- Oxford Primary Science Bk 7</li> </ul>	-
4			<b>PULLEYS</b>	<b>Pulleys</b> Definition of pulleys <ul style="list-style-type: none"> <li>- Types of pulleys (single) Fixed, movable pulleys)</li> <li>- Block and tackle</li> <li>- Characteristics of each type</li> <li>- Mechanical advantage of each type</li> <li>- Advantages of using each type</li> <li>- Application of pulleys in daily life</li> <li>- Single fixed pulley (1<sup>st</sup> class lever)</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- Define the term "pulley"</li> <li>- Mention examples of pulley types</li> <li>- Describe the characteristics of each pulley system.</li> <li>- Identify the advantage of using any of the given pulley systems.</li> <li>- Calculate for effort on pulley systems.</li> </ul>	<ul style="list-style-type: none"> <li>- Explanation</li> <li>- Discussion</li> <li>- Question and answer</li> <li>- Discovery</li> </ul>	<ul style="list-style-type: none"> <li>- Pulley blocks</li> <li>- Charts</li> <li>- Chalk board illustrations</li> </ul>	<ul style="list-style-type: none"> <li>- Taking notes</li> <li>- Doing some practical work</li> <li>- Demonstrating how pulleys work</li> <li>- Writing an exercise</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> </ul>	<ul style="list-style-type: none"> <li>- Functional Primary Science for Uganda Bk 7 - Oxford Primary Science Bk 7</li> </ul>	-

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				- Single movable pulley (2 <sup>nd</sup> class lever)							
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<b>2</b>	<b>2</b>		<b>FRICTION</b>	<b>Friction:</b> <ul style="list-style-type: none"> <li>- definition</li> <li>- Types of friction eg: limiting, static</li> <li>- dynamic/rolling</li> <li>- viscosity</li> <li>- advantages/disadvantages of friction</li> <li>- ways of increasing/reducing friction</li> <li>- topical questions</li> </ul>	<b>The Learner should be able to:</b> <ul style="list-style-type: none"> <li>- Define friction</li> <li>- Mention the different types of friction</li> <li>- Identify the advantages/disadvantages of friction</li> <li>- State different ways of increasing/reducing friction in machines</li> <li>- Answer the topical questions.</li> </ul>	<ul style="list-style-type: none"> <li>- Discussion</li> <li>- Explanation</li> <li>- Demonstration</li> <li>- Experimentation</li> </ul>	<ul style="list-style-type: none"> <li>- Chart</li> <li>- Bicycle - Rollers</li> <li>- Grease</li> <li>- Oil</li> <li>- Ball bearings</li> </ul>	<ul style="list-style-type: none"> <li>- Observing parts of a bicycle</li> <li>- Taking notes</li> <li>- Drawing diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> </ul>	<ul style="list-style-type: none"> <li>- Functional Primary Science for Uganda Bk 7 - Comprehensive Science Bk 7</li> </ul>	-
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4	<b>BODY SYSTEMS</b>	<b>EXCRETORY SYSTEMS</b>	<ul style="list-style-type: none"> <li>- Definition of excretion</li> <li>- Excretory organs and their products eg.</li> </ul> <p><b>A – The skin:</b></p> <ul style="list-style-type: none"> <li>- Structure and function of different parts.</li> <li>- Uses of the skin</li> <li>- Skin diseases - Care for the skin</li> </ul> <p><b>B – kidneys:</b></p> <ul style="list-style-type: none"> <li>- Structure and function of the kidney parts</li> <li>- Functions of the kidney</li> <li>- Diseases of the kidney &amp; Care of the kidneys</li> </ul>	<p><b>The Learner should be able to:</b></p> <ul style="list-style-type: none"> <li>- Define the term excretion</li> <li>- Mention the excretory organs and their waste products</li> <li>- Name different parts of the skin and give their functions</li> <li>- Name different parts of the skin and give their functions</li> <li>- Name different parts of the kidney and give their functions</li> <li>- name diseases of the skin and the kidney</li> </ul>	<ul style="list-style-type: none"> <li>- discussion</li> <li>- explanation</li> <li>- question and answer</li> <li>- discussion</li> </ul>	<ul style="list-style-type: none"> <li>- charts</li> <li>- chalk board sketches and illustrations</li> <li>- pupils texts</li> <li>- taking notes</li> <li>- drawing diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Taking notes</li> <li>- Drawing diagrams</li> <li>- Taking note</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> </ul>	<ul style="list-style-type: none"> <li>- Fountain Integrated Primary Science Bk 7</li> <li>- New Uganda Primary Integrated Science Bk 7</li> </ul>	-
4		<b>EXCRETORY SYSTEM</b>	<p><b>C - The lungs:</b></p> <ul style="list-style-type: none"> <li>- The structure and function of parts of the lungs</li> <li>- Importance of the lungs</li> <li>- Diseases of the lungs - Care for the lungs</li> </ul> <p><b>D - The Liver:</b></p>	<p><b>The Learner should be able to:</b></p> <ul style="list-style-type: none"> <li>- Name the different parts of the lungs and give their functions</li> <li>- Identify the diseases of the lungs</li> <li>- State ways of caring for the lungs.</li> </ul>	<ul style="list-style-type: none"> <li>- Explanation</li> <li>- Discussion</li> <li>- Question and answer</li> <li>- Discussion</li> <li>- Explanation</li> <li>- Discovery</li> </ul>	<ul style="list-style-type: none"> <li>- Charts</li> <li>- Model lungs</li> <li>- Pupils texts</li> <li>- Charts</li> <li>- Chalk board sketches</li> </ul>	<ul style="list-style-type: none"> <li>- Taking notes</li> <li>- Drawing and labeling diagrams</li> <li>- Taking notes</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> </ul>	<ul style="list-style-type: none"> <li>- Oxford Primary Science Bk 7</li> <li>- MK Integrated Primary Science Bk 7</li> </ul>	-

			<ul style="list-style-type: none"> <li>- General functions of the liver</li> <li>- Diseases of the liver</li> <li>- Control/prevention of the diseases</li> <li>- Care for the liver.</li> </ul>				<ul style="list-style-type: none"> <li>- Drawing diagrams and labeling</li> </ul>			
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10	1	FORMS OF ENERGY	Light	<ul style="list-style-type: none"> <li>Definition of light</li> <li>Sources of light</li> <li>Natural sources of light and examples</li> <li>Artificial sources of light and examples</li> <li>Uses of light</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Define the term light</li> <li>Name the different sources of light</li> <li>Give examples of natural and artificial sources</li> <li>State 4 uses of light</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Question and answer</li> </ul>	<ul style="list-style-type: none"> <li>Charts</li> <li>CB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>Taking notes</li> <li>Listing examples of light sources</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie Bk7</li> <li>Fountain integrated scie Bk7</li> </ul>	
	2			<ul style="list-style-type: none"> <li>Transmission of light – how light travels</li> <li>Experiments on transmission of light</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Explain how light travels</li> <li>Carry out simple experiments on transmission of light</li> </ul>	<ul style="list-style-type: none"> <li>Explanation</li> <li>Experimentation</li> <li>Discovery</li> </ul>	<ul style="list-style-type: none"> <li>Torches</li> <li>Cells</li> <li>Cardboard</li> <li>CB sketches</li> </ul>	<ul style="list-style-type: none"> <li>Carrying out experiments</li> <li>Taking notes</li> </ul>		<ul style="list-style-type: none"> <li>MK integrated scie Bk7</li> <li>Fountain integrated scie Bk7</li> </ul>	
	3	FORMS OF ENERGY		<u>Beams of light</u> <ul style="list-style-type: none"> <li>Types of beams</li> <li>Effects of light on different materials (opaque, translucent and transparent materials)</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>Define the term “beams” of light</li> <li>Name the types of beams</li> <li>State the effect of light on different materials</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Explanation</li> <li>Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>Polythene paper</li> <li>Oil</li> <li>Cells</li> <li>Torches</li> <li>CB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>Discussing in groups</li> <li>Taking notes</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>MK integrated scie Bk7</li> <li>Fountain integrated scie Bk7</li> </ul>	

4 & 5	GY		<ul style="list-style-type: none"> <li>✦ <u>Shadows</u> – definition</li> <li>✦ How shadows are formed</li> <li>✦ Characteristics of shadows</li> <li>✦ Eclipses – definition</li> <li>✦ How eclipses are formed.</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>✦ Define the term “shadow”</li> <li>✦ Explain how shadows are formed</li> <li>✦ Identify the characteristics of shadows</li> </ul>	<ul style="list-style-type: none"> <li>✦ Discussion</li> <li>✦ Explanation</li> <li>✦ Demonstration</li> </ul>	<ul style="list-style-type: none"> <li>✦ Charts</li> <li>✦ Torches</li> <li>✦ Cells</li> <li>✦ CB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>✦ Taking notes</li> <li>✦ Drawing diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>✦ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>✦ MK integrated scie Bk7</li> <li>✦ Fountain integrated scie Bk7</li> </ul>	

			<ul style="list-style-type: none"> <li>✦ What affects the size of shadows</li> </ul>	<ul style="list-style-type: none"> <li>✦ Explain what shadows are and how they are formed</li> </ul>						
6			<ul style="list-style-type: none"> <li>✦ Effect of light on shinny objects</li> <li>✦ Types of reflection</li> <li>✦ Laws of reflection</li> <li>✦ Calculations on reflection</li> <li>✦ Importance of reflection.</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>✦ State the effect of light on shinny objects</li> <li>✦ List 3 laws of reflection</li> <li>✦ Carry out calculations on reflection correctly</li> </ul>	<ul style="list-style-type: none"> <li>✦ Explanation</li> <li>✦ Question and answer</li> </ul>	<ul style="list-style-type: none"> <li>✦ Charts</li> <li>✦ CB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>✦ Taking notes</li> <li>✦ Drawing diagrams</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>✦ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>✦ MK integrated scie Bk7</li> <li>✦ Fountain integrated scie Bk7</li> </ul>	

	<b>7 &amp; 8</b>			<ul style="list-style-type: none"> <li>✦ Characteristics of images formed in a plane mirror</li> <li>✦ Illustrations on the characteristics of images on a plane mirror</li> <li>✦ Uses of plane mirrors</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>✦ Identify the characteristics of images formed on a plane mirror</li> <li>✦ State at least 4 uses of plane mirrors in daily life</li> </ul>	<ul style="list-style-type: none"> <li>✦ Discussion</li> <li>✦ Experimentation</li> <li>✦ Question and answer</li> </ul>	<ul style="list-style-type: none"> <li>✦ Charts</li> <li>✦ Plane mirrors</li> </ul>	<ul style="list-style-type: none"> <li>✦ Taking notes</li> <li>✦ Carrying out experiments</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>✦ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>✦ Complete junior physics</li> <li>✦ Supplementary science std8</li> </ul>	
<b>1</b>	<b>1</b>	<b>FORMS OF</b>		<ul style="list-style-type: none"> <li>✦ Curved mirrors and their examples</li> <li>✦ Characteristics of images on curved mirrors</li> <li>✦ Common uses of curved mirrors in daily life</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>✦ List the examples of curved mirrors</li> <li>✦ State 2 characteristics of curved mirrors</li> <li>✦ Give at least 2 uses of curved mirrors in daily life</li> </ul>	<ul style="list-style-type: none"> <li>✦ Explanation</li> <li>✦ Discussion</li> </ul>	<ul style="list-style-type: none"> <li>✦ Curved mirrors</li> <li>✦ Charts</li> </ul>	<ul style="list-style-type: none"> <li>✦ Writing notes</li> <li>✦ Listing</li> <li>✦ Drawing</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>✦ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>✦ Complete junior physics</li> <li>✦ Supplementary science std8</li> </ul>	
	<b>2</b>			<ul style="list-style-type: none"> <li>✦ <u>Refraction</u> – definition</li> <li>✦ Effects of refraction of light</li> <li>✦ Experiments on refraction of light</li> <li>✦ Mirages</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>✦ Explain the term refraction</li> <li>✦ List the effects of refraction of light</li> <li>✦ Carry out simple experiments on refraction of light</li> </ul>	<ul style="list-style-type: none"> <li>✦ Question and answer</li> <li>✦ Discussion</li> </ul>	<ul style="list-style-type: none"> <li>✦ Mirrors</li> <li>✦ Charts</li> <li>✦ CB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>✦ Taking notes</li> <li>✦ Drawing</li> <li>✦ Performing</li> </ul>	<ul style="list-style-type: none"> <li>✦</li> </ul>	<ul style="list-style-type: none"> <li>✦ Complete junior physics</li> <li>✦ Supplementary science std8</li> </ul>	

		<b>ENERGY</b>			✦ Explain mirages and state their effects						
3				✦ <u>Lenses</u> – definition ✦ Types of lenses and their examples ✦ Uses of lenses ✦ Differences between lenses.	<b>The Learner should be able to:-</b> ✦ Explain the meaning of lenses ✦ Identify the types of lenses and state their use in daily life ✦ Identify the differences between lenses.	✦ Explanation ✦ Experimentation	✦ Lenses ✦ Charts ✦ CB illustrations	✦ Taking notes	- Critical thinking - Appreciation - Problem solving ✦ Effective communication	✦ Complete junior physics ✦ Supplementary science std8	
4				<u>Optical instruments</u> Definition ✦ Examples of optical instruments ✦ Uses of optical instruments ✦ How some of the instruments work	<b>The Learner should be able to:-</b> ✦ Give examples of some optical instruments ✦ Give uses of the named optical instruments and how they work	✦ Discussion ✦ Question and answer	✦ Some optical instruments ✦ CB sketches	✦ Taking notes ✦ Drawing	- Critical thinking - Appreciation - Problem solving ✦ Effective communication	✦ Complete junior physics ✦ Supplementary science std8	
5				✦ Dispersion of light (spectrum) ✦ Meaning of dispersion ✦ The rainbow ✦ How it is formed	<b>The Learner should be able to:-</b> ✦ Explain the dispersion of light ✦ State the meaning of spectrum ✦ Explain how a rainbow is formed	✦ Discussion ✦ Experimentation	✦ Charts ✦ CB illustrations	✦ Taking notes ✦ Drawing	- Critical thinking - Appreciation - Problem solving ✦ Effective communication	✦ Complete junior physics ✦ Supplementary science std8	

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6			<ul style="list-style-type: none"> <li>+ Colours of objects in white light</li> <li>+ Illustration using the colour wheel</li> <li>+ Primary, secondary and the complementary colours</li> </ul>	<b>The Learner should be able to:-</b> <ul style="list-style-type: none"> <li>+ State the effect of coloured light on different objects</li> <li>+ Explain how primary, secondary and complementary colours are formed</li> </ul>	<ul style="list-style-type: none"> <li>+ Discussion</li> <li>+ Experimentation</li> </ul>	<ul style="list-style-type: none"> <li>+ Different colours</li> <li>+ Motor</li> <li>+ Dry cells</li> </ul>	<ul style="list-style-type: none"> <li>+ Drawing</li> <li>+ Note taking</li> <li>+ Mixing colours</li> </ul>	<ul style="list-style-type: none"> <li>- Critical thinking</li> <li>- Appreciation</li> <li>- Problem solving</li> <li>+ Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>+ Complete junior physics</li> <li>+ Supplementary science std8</li> </ul>	
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	7 & 8	FORMS OF ENERGY		<p><u>The pinhole camera</u></p> <ul style="list-style-type: none"> <li>Characteristics of images formed in a pinhole camera</li> <li>How it works</li> <li>Making a pin hole camera.</li> </ul>	<p><b>The Learner should be able to:-</b></p> <ul style="list-style-type: none"> <li>Explain how a pinhole camera is made</li> <li>Name the characteristics of images formed in a pinhole camera</li> <li>Identify the parts of a lens camera and how it works</li> </ul>	<ul style="list-style-type: none"> <li>Explanation</li> <li>Discussion</li> </ul>	<ul style="list-style-type: none"> <li>Simple pinhole camera</li> <li>Old photographic camera</li> </ul>	<ul style="list-style-type: none"> <li>Making simple pinhole camera</li> <li>Notes taking</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>Complete junior physics</li> <li>Supplementary science std8</li> </ul>	
1 & 2	1 & 2			<p><u>The human eye</u></p> <ul style="list-style-type: none"> <li>The structure and function of the parts</li> <li>Comparison b/n the human eye and the camera</li> <li>Comparison of images formed in human eye and plane mirror.</li> </ul>	<p><b>The Learner should be able to:-</b></p> <ul style="list-style-type: none"> <li>Draw the human eye</li> <li>Name the different parts and give their uses</li> <li>State the similarities and the differences b/n a lens camera and human eye</li> </ul>	<ul style="list-style-type: none"> <li>Guided discussion</li> <li>Explanation</li> </ul>	<ul style="list-style-type: none"> <li>CB illustrations</li> <li>Chart</li> </ul>	<ul style="list-style-type: none"> <li>Drawing</li> <li>Taking notes</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>Complete junior physics</li> <li>Supplementary science std8</li> </ul>	
	3 & 4			<ul style="list-style-type: none"> <li>Diseases and defects of the eye</li> <li>Prevention and treatment of the defects and diseases</li> <li>Care for the eye</li> </ul>	<p><b>The Learner should be able to:-</b></p> <ul style="list-style-type: none"> <li>Name the diseases and defects of the eye</li> <li>Explain how to prevent and treat the diseases</li> <li>State how to care for our eyes</li> </ul>	<ul style="list-style-type: none"> <li>Discussion</li> <li>Explanation</li> </ul>	<ul style="list-style-type: none"> <li>CB illustrations</li> </ul>	<ul style="list-style-type: none"> <li>Note taking</li> </ul>	<ul style="list-style-type: none"> <li>Critical thinking</li> <li>Appreciation</li> <li>Problem solving</li> <li>Effective communication</li> </ul>	<ul style="list-style-type: none"> <li>Complete junior physics</li> <li>Supplementary science std8</li> </ul>	
11	9	INTERDEPENDENCE	ENVIRONMENT	<ul style="list-style-type: none"> <li>Definition of environment.</li> <li>Components of environment.</li> <li>Classification of the components according to living and non-living.</li> <li>Description of</li> </ul>	<ul style="list-style-type: none"> <li>Define environment</li> <li>Identify components of environment</li> <li>Describe interdependence.</li> <li>Describe how things depend on each other in our environment</li> </ul>	<p>Explanation</p> <p>Discussion</p> <p>Question and answer</p>				<p>Fountain Primary Science bk 4 Pgs 42 - 51</p> <p>Comprehensive Primary Science bk 4 Pg 83 – 87</p>	

		OF  THINGS		<div>interdependence</div> <div><input type="checkbox"/> How living things depend on non-living things.</div> <div><input type="checkbox"/> How living things depend on each other.</div> <div><input type="checkbox"/> How animals depend on plants. (seed dispersal)</div> <div><input type="checkbox"/> How plants depend on animals.</div> <div><input type="checkbox"/> How animals depend on each other. (food chain / food web).</div> <div>i. Internal parasites.</div> <div>ii. External parasites.</div> <div>iii. Predators</div> <div>iv. Prey</div>		Demonstration					MK Inter. Primary Science bk 4 Pgs 47 – 58	
				<div>✦ agro forestry</div> <div><input type="checkbox"/> Meaning</div> <div><input type="checkbox"/> Advantages</div> <div><input type="checkbox"/> Ways of Proper wood harvesting</div> <div><input type="checkbox"/> Ways of Proper wood treatment</div>		✦	✦	✦	-	✦		