

SCIENCE TECHNOLOGY SCHEME OF WORK GRADE 6 TERM 3

NAME	
TSC NO.	
SCHOOL	

SCIENCE AND TECHNOLOGY SCHEME OF WORK GRADE 6 TERM 3

SCHOOL	GRADE	LEARNING AREA	TERM	YEAR
	GRADE 6	SCIENCE AND TECHNOLOGY	3	

Wk	Lsn	Strand/Theme	Sub strand	Specific learning outcomes	Key Inquiry Questions	Learning Experiences	Learning Resources	Assessment Methods	Ref
1	1	FORCE AND ENERGY	Ways of reducing friction	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. State and explain ways of reducing b. Demonstrate ways of reducing friction c. Appreciate the use of friction in everyday life 	<p>Is it possible to reduce friction?</p> <p>How can friction be reduced?</p>	<p>Learners to Pull and push objects on smooth and rough surfaces, observe and record. Discuss the meaning of friction. Use digital devices to identify effects friction on objects. Discuss advantages and disadvantages of friction. Demonstrate ways of increasing and reducing friction in everyday life.</p>	<p>A table , toy cars , a piece of cloth, petroleum jelly, digital internet</p> <p>New Planet Scie & Tech Grd 6 TG pg. 105-106</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 118-121</p>	<p>Oral questioning, project, questionnaires, written questions</p>	
	2		Ways of increasing friction	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. State and explain ways of increasing friction b. Make sandpaper using materials available in their locality c. Appreciate the use of friction in everyday life 	<p>How can we increase friction?</p> <p>What is sandpaper?</p> <p>What is sandpaper used for?</p>	<p>Project: Learners to make a sand paper using locally available materials</p>	<p>Manilla paper, digital device, internet, pair incisors, glue and sand</p> <p>New Planet Scie & Tech Grd 6 TG pg. 107-108</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 122-123</p>	<p>Oral questioning, project, questionnaires, written questions</p>	

3		Ways of increasing friction	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> State and explain ways of increasing friction Make sandpaper using materials available in their locality Appreciate the use of friction in everyday life 	<p>How can you make sandpaper?</p> <p>Which materials can one use to make sandpaper?</p>	Project: Learners to make a sand paper using locally available materials	<p>Manilla paper, digital device, internet, pair incisors, glue and sand</p> <p>New Planet Scie & Tech Grd 6 TG pg. 107-108</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 122-123</p>	<p>Oral questioning, project, questionnaires, written questions</p>
4	Light Energy	Meaning of reflection of light	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Demonstrate the reflection of light by different materials Define the term reflection Appreciate the importance of light 	<p>How does light travel?</p> <p>How are people able to see their image in a mirror?</p> <p>Which materials reflect light?</p>	<p>In groups, learners use different types of materials to demonstrate and observe reflection of light. The learners are guided to discuss the meaning of reflection. Learners to use digital devices to observe reflection of light. Learners discuss the application of reflection of light</p>	<p>A flat mirror, geometrical set, digital device, a spoon, metallic</p> <p>New Planet Scie & Tech Grd 6 TG pg. 110-112</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 126-128</p>	<p>Oral questioning, project, questionnaires, written questions</p>
2	1	Meaning of reflection of light	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Demonstrate the reflection of light by different materials Define the term reflection Appreciate the importance of light 	<p>How does light travel?</p> <p>How are people able to see their image in a mirror?</p> <p>Which materials reflect light?</p>	<p>In groups, learners use different types of materials to demonstrate and observe reflection of light. The learners are guided to discuss the meaning of reflection. Learners to use digital devices to observe reflection of light. Learners discuss the application of reflection of light</p>	<p>A flat mirror, geometrical set, digital device, a spoon, metallic</p> <p>New Planet Scie & Tech Grd 6 TG pg. 110-112</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 126-128</p>	<p>Oral questioning, project, questionnaires, written questions</p>

2		Meaning of reflection of light	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Demonstrate the reflection of light by different materials Define the term reflection Appreciate the importance of light 	<p>How does light travel?</p> <p>How are people able to see their image in a mirror?</p> <p>Which materials reflect light?</p>	<p>In groups, learners use different types of materials to demonstrate and observe reflection of light. The learners are guided to discuss the meaning of reflection. Learners to use digital devices to observe reflection of light. Learners discuss the application of reflection of light</p>	<p>A flat mirror, geometrical set, digital device, a spoon, metallic</p> <p>New Planet Scie & Tech Grd 6 TG pg. 110-112</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 126-128</p>	<p>Oral questioning, project, questionnaires, written questions</p>	
3		Application of reflection of light in day-to-day life	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify the application of reflection of light in day-to-day life Demonstrate application of reflection of light Appreciate the importance of light 	<p>In what areas are reflection of light applied in our lives?</p>	<p>In groups, learners use different types of materials to demonstrate and observe reflection of light. The learners are guided to discuss the meaning of reflection. Learners to use digital devices to observe reflection of light. Learners discuss the application of reflection of light</p>	<p>Digital devices, internet, notebooks, pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 112-114</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 129-132</p>	<p>Oral questioning, project, questionnaires, written questions</p>	
4		Application of reflection of light in day-to-day life	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify the application of reflection of light in day-to-day life Demonstrate application of reflection of light Appreciate the importance of light 	<p>In what areas are reflection of light applied in our lives?</p>	<p>In groups, learners use different types of materials to demonstrate and observe reflection of light. The learners are guided to discuss the meaning of reflection. Learners to use digital devices to observe reflection of light. Learners discuss the application of reflection of light</p>	<p>Digital devices, internet, notebooks, pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 112-114</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 129-132</p>	<p>Oral questioning, project, questionnaires, written questions</p>	

3	1		Making a functional periscope	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Make a simple and functional periscope using materials available in the locality Identify materials for making a periscope locally Appreciate the importance of light 	<p>How is a periscope made?</p> <p>What materials can be used to make a periscope?</p> <p>How does a periscope work?</p>	<p>In groups, learners use different types of materials to demonstrate and observe reflection of light.</p> <p>The learners are guided to discuss the meaning of reflection.</p> <p>Learners to use digital devices to observe reflection of light.</p> <p>Learners discuss the application of reflection of light</p>	<p>Carton box, digital device, internet, flat mirrors, glues</p> <p>New Planet Scie & Tech Grd 6 TG pg. 115-116</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 132</p>	<p>Oral questioning, project, questionnaires, written questions</p>	
	2		Making a functional periscope	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Make a simple and functional periscope using materials available in the locality Identify materials for making a periscope locally Appreciate the importance of light 	<p>How is a periscope made?</p> <p>What materials can be used to make a periscope?</p> <p>How does a periscope work?</p>	<p>In groups, learners use different types of materials to demonstrate and observe reflection of light.</p> <p>The learners are guided to discuss the meaning of reflection.</p> <p>Learners to use digital devices to observe reflection of light.</p> <p>Learners discuss the application of reflection of light</p>	<p>Carton box, digital device, internet, flat mirrors, glues</p> <p>New Planet Scie & Tech Grd 6 TG pg. 115-116</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 132</p>	<p>Oral questioning, project, questionnaires, written questions</p>	
3		Machines	Slopes: meaning of slopes and how they make work easier	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify what slopes are Demonstrate how slopes make work easier in life Appreciate the importance of machines 	<p>What is a slope?</p> <p>How do slopes make work easier?</p>	<p>Learners to Carry out an activity to observe and record how slopes make work easier</p> <p>Walk around the school and neighborhood to observe and identify areas where slopes have been used to make work easier. (<i>Ladder, staircase and ramp</i>)</p>	<p>Piece of wood, digital devices, internet</p> <p>New Planet Scie & Tech Grd 6 TG pg. 117-118</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 134-135</p>	<p>Oral questioning, project, questionnaires, written questions</p>	

4		Slopes: meaning of slopes and how they make work easier	<i>By the end of the lesson the learner should be able to:</i> a. Identify what slopes are b. Demonstrate how slopes make work easier in life c. Appreciate the importance of machines	What is a slope? How do slopes make work easier?	Learners to Carry out an activity to observe and record how slopes make work easier Walk around the school and neighborhood to observe and identify areas where slopes have been used to make work easier. (<i>Ladder, staircase and ramp</i>)	Piece of wood, digital devices, internet New Planet Scie & Tech Grd 6 TG pg. 117-118 New Planet Scie & Tech Grd 6 Learners Bk. pg. 134-135	Oral questioning, project, questionnaires, written questions
4	1	Forms of slope	<i>By the end of the lesson the learner should be able to:</i> a. Identify the various forms of slopes that make work easier in the locality b. Make work easier by using slopes c. Appreciate the use of slopes in everyday life	Which forms of slopes are found in your locality? Do you think slopes are important?	Learners to Use digital devices to observe the use of slopes. Discuss how ramp help the physically challenged to move with easy	Digital devices, internet, notebook, pen and pencils New Planet Scie & Tech Grd 6 TG pg. 119-121 New Planet Scie & Tech Grd 6 Learners Bk. pg. 136-138	Oral questioning, project, questionnaires, written questions
	2	Forms of slope	<i>By the end of the lesson the learner should be able to:</i> a. Identify the various forms of slopes that make work easier in the locality b. Make work easier by using slopes c. Appreciate the use of slopes in everyday life	Which forms of slopes are found in your locality? Do you think slopes are important?	Learners to Use digital devices to observe the use of slopes. Discuss how ramp help the physically challenged to move with easy	Digital devices, internet, notebook, pen and pencils New Planet Scie & Tech Grd 6 TG pg. 119-121 New Planet Scie & Tech Grd 6 Learners Bk. pg. 136-138	Oral questioning, project, questionnaires, written questions
	3	Forms of slope	<i>By the end of the lesson the learner should be able to:</i>	Which forms of slopes are found in your locality?	Learners to Use digital devices to observe the use of slopes.	Digital devices, internet, notebook, pen and pencils	Oral questioning, project, questionnaires

			<ul style="list-style-type: none"> a. Identify the various forms of slopes that make work easier in the locality b. Make work easier by using slopes c. Appreciate the use of slopes in everyday life 	Do you think slopes are important?	Y Discuss how ramp help the physically challenged to move with easy	New Planet Scie & Tech Grd 6 TG pg. 119-121	es, written questions	
4		Forms of slope	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Identify the various forms of slopes that make work easier in the locality b. Make work easier by using slopes c. Appreciate the use of slopes in everyday life 	<p>Which forms of slopes are found in your locality?</p> <p>Do you think slopes are important?</p>	Learners to Use digital devices to observe the use of slopes. Discuss how ramp help the physically challenged to move with easy	<p>Digital devices, internet, notebook, pen and pencils</p> <p>New Planet Scie & Tech Grd 6 TG pg. 119-121</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 136-138</p>	Oral questioning, project, questionnaires, written questions	
5	1	Construction of a simple slope for use	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Make a simple slope for use in school b. Identify locally available materials for making a slope c. Appreciate the use of slopes in everyday life 	<p>Which materials will be used to make the slope?</p> <p>Where will the materials be obtained from?</p>	Learners to Project: make a simple slope for use in school or at home.	<p>Pieces of wood, stones, sand, nails and hammers</p> <p>New Planet Scie & Tech Grd 6 TG pg. 122-124</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 138-139</p>	Oral questioning, project, questionnaires, written questions	
	2	Construction of a simple slope for use	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Make a simple slope for use in school b. Identify locally available materials for making a slope 	<p>Which area in the school requires a slope?</p> <p>What will the slope be used for?</p>	Learners to Project: make a simple slope for use in school or at home.	<p>Pieces of wood, stones, sand, nails and hammers</p> <p>New Planet Scie & Tech Grd 6 TG pg. 122-124</p>	Oral questioning, project, questionnaires, written questions	

			c. Appreciate the use of slopes in everyday life	Where do we get permission to construct the slope?		New Planet Scie & Tech Grd 6 Learners Bk. pg. 138-139		
	3-4	REVISION						
6-9	1-4	REVISION AND END OF TERM ASSESSMENT						