

SCHOOL	GRADE	LEARNING AREA	TERM	YEAR
	GRADE 6	SCIENCE TECHNOLOGY	2	

Wk	Ls n	Strand/Theme	Sub strand	Specific learning outcomes	Key inquiry Questions	Learning experiences	Learning Resources	Assessment methods	Ref
1	1	Reproductive system	Parts and functions of the female reproductive system	<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 major parts of the female reproductive system b. Discuss the functions of parts of the female reproductive system c. Using IT devices watch video clips of female reproductive system d. Appreciate the importance of female reproductive system 	<p>Which are the major parts of female reproductive system?</p> <p>What are the functions of these parts?</p>	<p>Learners to use visual aids to observe and identify the parts of the human male and female reproductive systems. <i>(Use of videos and graphic images of the reproductive organs not required).</i></p> <p>In groups, learners to discuss the functions of the parts of the male and female reproductive systems. <i>(Male; penis, testis, urethra and glands. Female; vagina, cervix, uterus, oviduct, and ovaries. Detailed internal structures of testis and ovaries not required).</i></p> <p>Learners discuss in groups the implications of changes that come with the adolescence. <i>(social and health)</i></p>	<p>Notebooks, pen, digital and digital devices, charts</p> <p>New Planet Scie & Tech Grd 6 TG pg. 52-53</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 50-52</p>	<p>Observation</p> <p>Written questions</p>	
	2		Parts and functions of the female reproductive system	<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 major parts of the female reproductive system 	<p>Which are the major parts of female reproductive system?</p>	<p>Learners to use visual aids to observe and identify the parts of the human male and female reproductive systems. <i>(Use of videos and graphic images of the reproductive organs not required).</i></p>	<p>Notebooks, pen, digital and digital devices, charts</p> <p>New Planet Scie & Tech Grd 6 TG pg. 52-53</p>	<p>Observation</p> <p>Written questions</p>	

				b. Discuss the functions of parts of the female reproductive system c. Using IT devices watch video clips of female reproductive system d. Appreciate the importance of female reproductive system	What are the functions of these parts?	In groups, learners to discuss the functions of the parts of the male and female reproductive systems. (<i>Male; penis, testis, urethra and glands. Female; vagina, cervix, uterus, oviduct, and ovaries. Detailed internal structures of testis and ovaries not required</i>). Learners discuss in groups the implications of changes that come with the adolescence. (<i>social and health</i>)	New Planet Scie & Tech Grd 6 Learners Bk. pg. 50-52		
	3		Parts and functions of male reproductive system	<i>By the end of the lesson the learner should be able to:</i> a. Identify the major parts of the male reproductive system b. Discuss the functions of parts of the male reproductive system c. Using IT devices watch video clips of male reproductive system d. Appreciate the importance of male reproductive system	Which parts of the male reproductive system? What are the functions of the different parts?	Learners to use visual aids to observe and identify the parts of the human male and female reproductive systems. (<i>Use of videos and graphic images of the reproductive organs not required</i>). In groups, learners to discuss the functions of the parts of the male and female reproductive systems. (<i>Male; penis, testis, urethra and glands. Female; vagina, cervix, uterus, oviduct, and ovaries. Detailed internal structures of testis and ovaries not required</i>). Learners discuss in groups the implications of changes that come with the adolescence. (<i>social and health</i>)	Notebooks, pen, digital and digital devices, charts New Planet Scie & Tech Grd 6 TG pg. 54-55 New Planet Scie & Tech Grd 6 Learners Bk. pg. 52-54	Observation Written questions	

	4		Parts and functions of male reproductive system	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify the major parts of the male reproductive system Discuss the functions of parts of the male reproductive system Using IT devices watch video clips of male reproductive system Appreciate the importance of male reproductive system 	<p>Which parts of the male reproductive system?</p> <p>What are the functions of the different parts?</p>	<p>Learners to use visual aids to observe and identify the parts of the human male and female reproductive systems. (<i>Use of videos and graphic images of the reproductive organs not required</i>).</p> <p>In groups, learners to discuss the functions of the parts of the male and female reproductive systems. (<i>Male; penis, testis, urethra and glands. Female; vagina, cervix, uterus, oviduct, and ovaries. Detailed internal structures of testis and ovaries not required</i>).</p> <p>Learners discuss in groups the implications of changes that come with the adolescence. (<i>social and health</i>)</p>	<p>Notebooks, pen, digital and digital devices, charts</p> <p>New Planet Scie & Tech Grd 6 TG pg. 54-55</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 52-54</p>	<p>Observation</p> <p>Written questions</p>	
2	1		Physical changes that take place during adolescence	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Describe the physical changes that take place during adolescence Using IT devices watch video clips of the reproductive system Appreciate the importance of reproductive system 	<p>What is the adolescence period?</p> <p>What physical changes occur in boys during adolescence?</p> <p>What physical changes occur in girls during adolescence?</p>	<p>Learners to use visual aids to observe and identify the parts of the human male and female reproductive systems. (<i>Use of videos and graphic images of the reproductive organs not required</i>).</p> <p>In groups, learners to discuss the functions of the parts of the male and female reproductive systems. (<i>Male; penis, testis, urethra and glands. Female; vagina, cervix, uterus, oviduct, and ovaries. Detailed internal structures of testis and ovaries not required</i>).</p>	<p>Notebooks, pen, digital and digital devices</p> <p>New Planet Scie & Tech Grd 6 TG pg. 56-57</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 54-56</p>	<p>Observation</p> <p>Written questions</p>	

						Y Learners discuss in groups the implications of changes that come with the adolescence. (<i>social and health</i>)			
2		Social implications of changes that occur during adolescence	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Discuss the social implications of changes that come with adolescence Discuss The health implications of changes that come with adolescence Watch video clip on changes during adolescence Appreciate the importance of reproductive system 	What are the social effects of changes that come with adolescence?	<p>Learners to use visual aids to observe and identify the parts of the human male and female reproductive systems. (<i>Use of videos and graphic images of the reproductive organs not required</i>).</p> <p>In groups, learners to discuss the functions of the parts of the male and female reproductive systems. (<i>Male; penis, testis, urethra and glands. Female; vagina, cervix, uterus, oviduct, and ovaries. Detailed internal structures of testis and ovaries not required</i>).</p> <p>Learners discuss in groups the implications of changes that come with the adolescence. (<i>social and health</i>)</p>	<p>Notebooks, pen, digital and digital devices</p> <p>New Planet Scie & Tech Grd 6 TG pg. 58-59</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 56-57</p>	<p>Observation</p> <p>Written questions</p>		
3		Health implications of changes that occur during adolescence	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Discuss the health implications of changes that occur during adolescence Watch video clip on changes during adolescence Appreciate the importance of reproductive system 	What are the health implications of changes that occur during adolescence?	<p>Learners to use visual aids to observe and identify the parts of the human male and female reproductive systems. (<i>Use of videos and graphic images of the reproductive organs not required</i>).</p> <p>In groups, learners to discuss the functions of the parts of the male and female reproductive systems. (<i>Male; penis, testis, urethra and glands. Female; vagina,</i></p>	<p>Notebooks, pen, digital and digital devices</p> <p>New Planet Scie & Tech Grd 6 TG pg. 59-61</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 57-58</p>	<p>Observation</p> <p>Written questions</p>		

						<p><i>cervix, uterus, oviduct, and ovaries. Detailed internal structures of testis and ovaries not required).</i></p> <p>Learners discuss in groups the implications of changes that come with the adolescence. (<i>social and health</i>)</p>			
	4		Health implications of changes that occur during adolescence	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Discuss the health implications of changes that occur during adolescence Watch video clip on changes during adolescence Appreciate the importance of reproductive system 	What are the health implications of changes that occur during adolescence?	<p>Learners to use visual aids to observe and identify the parts of the human male and female reproductive systems. (<i>Use of videos and graphic images of the reproductive organs not required</i>).</p> <p>In groups, learners to discuss the functions of the parts of the male and female reproductive systems. (<i>Male; penis, testis, urethra and glands. Female; vagina, cervix, uterus, oviduct, and ovaries. Detailed internal structures of testis and ovaries not required</i>).</p> <p>Learners discuss in groups the implications of changes that come with the adolescence. (<i>social and health</i>)</p>	<p>Notebooks, pen, digital and digital devices</p> <p>New Planet Scie & Tech Grd 6 TG pg. 59-61</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 57-58</p>	<p>Observation</p> <p>Written questions</p>	
3	1	ENVIRONMENT	Water conservation: meaning of water conservation	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Discuss the meaning of water conservations Describe ways of conserving water at home. 	<p>What is water conservation?</p> <p>How can water be conserved in the locality?</p>	<p>Learners are guided to discuss the meaning of conserving water.</p> <p>Learners explore their locality how water is conserved.</p> <p>Learners are guided to discuss ways of conserving water (Hint: Simple</p>	<p>Digital devices, internet, notebooks, pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 63-65</p>	<p>Observation</p> <p>Written questions</p>	

				c. Draw pictures of items used in conserving water d. Appreciate the importance of water in day-to-day life		examples of reducing, Re-using and Recycling). Learners are guided to discuss the importance of conserving water Learners participate in communal activities to conserve water	New Planet Scie & Tech Grd 6 Learners Bk. pg. 61-62		
2		Water conservation: meaning of water conservation	<i>By the end of the lesson the learner should be able to:</i> a. Discuss the meaning of water conservations b. Describe ways of conserving water at home. c. Draw pictures of items used in conserving water d. Appreciate the importance of water in day-to-day life	How can you take care of water and water sources to ensure that there is enough water to use during the dry season? How do you use water when there is a shortage at home?	Learners are guided to discuss the meaning of conserving water. Learners explore their locality how water is conserved. Learners are guided to discuss ways of conserving water (Hint: Simple examples of reducing, Re-using and Recycling). Learners are guided to discuss the importance of conserving water Learners participate in communal activities to conserve water	Digital devices, internet, notebooks, pens New Planet Scie & Tech Grd 6 TG pg. 63-65 New Planet Scie & Tech Grd 6 Learners Bk. pg. 61-62	Observation Written questions		
3		Ways of conserving water: reusing and reducing	<i>By the end of the lesson the learner should be able to:</i> a. Describe reusing and reducing as ways of conserving water b. Draw pictures of items used in conserving water c. Appreciate the importance of water in day-to-day life	What is reusing water? What is reducing water?	Learners are guided to discuss the meaning of conserving water. Learners explore their locality how water is conserved. Learners are guided to discuss ways of conserving water (Hint: Simple examples of reducing, Re-using and Recycling). Learners are guided to discuss the importance of conserving water Learners participate in	Digital devices, internet, notebooks, pens New Planet Scie & Tech Grd 6 TG pg. 65-67 New Planet Scie & Tech Grd 6 Learners Bk. pg. 62-66	Observation Written questions		

						communal activities to conserve water			
	4		Recycling, harvesting rainwater, mulching and construction of dams	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Describe recycling, harvesting rainwater and construction of dams as ways of conserving water b. Model items used in water conservation c. Appreciate the importance of water in day-to-day life 	<p>What is recycling water?</p> <p>How do you collect and store rainwater at home?</p> <p>Have you ever seen crops that have been mulched?</p> <p>Do dams help to conserve water?</p>	<p>Learners are guided to discuss the meaning of conserving water. Learners explore their locality how water is conserved. Learners are guided to discuss ways of conserving water (Hint: Simple examples of reducing, Re-using and Recycling). Learners are guided to discuss the importance of conserving water. Learners participate in communal activities to conserve water</p>	<p>Digital devices, internet, notebooks, pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 67-69</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 66-68</p>	<p>Observation</p> <p>Written questions</p>	
4	1		Recycling, harvesting rainwater, mulching and construction of dams	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Describe recycling, harvesting rainwater and construction of dams as ways of conserving water b. Model items used in water conservation c. Appreciate the importance of water in day-to-day life 	<p>What is recycling water?</p> <p>How do you collect and store rainwater at home?</p> <p>Have you ever seen crops that have been mulched?</p> <p>Do dams help to conserve water?</p>	<p>Learners are guided to discuss the meaning of conserving water. Learners explore their locality how water is conserved. Learners are guided to discuss ways of conserving water (Hint: Simple examples of reducing, Re-using and Recycling). Learners are guided to discuss the importance of conserving water. Learners participate in communal activities to conserve water</p>	<p>Digital devices, internet, notebooks, pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 67-69</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 66-68</p>	<p>Observation</p> <p>Written questions</p>	

2		Importance of conserving water at home	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Explain the importance of conserving water at home Model items used in water conservation Appreciate the importance of water in day-to-day life 	Why is it important to conserve water at home?	<p>Learners are guided to discuss the meaning of conserving water. Learners explore their locality how water is conserved.</p> <p>Learners are guided to discuss ways of conserving water (Hint: Simple examples of reducing, Re-using and Recycling). Learners are guided to discuss the importance of conserving water</p> <p>Learners participate in communal activities to conserve water</p>	<p>Digital devices, internet, notebooks, pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 69-70</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 68-69</p>	Observation Written questions	
3	INTERACTING WITH COMPUTING DEVICES	Handling data (spreadsheet): safety precautions to observe while using computing devices in the locality	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Discuss and observe safety precautions when using computing Practice the safety rules Appreciate the importance of computing devices 	What safety precautions should be observed while using computing devices in the locality?	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document. Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 71-72</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 71-72</p>	Observation Written questions	
4		Creating a spreadsheet document and	<p><i>By the end of the lesson the learner should be able to:</i></p>	What is a spreadsheet document?	Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet	Digital devices Internet, notebooks and pens	Observation Written questions	

			keying in information	<ul style="list-style-type: none"> a. Create a spreadsheet document on a computing b. Key information in a spreadsheet document c. Appreciate the importance of computing devices 	<p>How do you create a spreadsheet document?</p> <p>How do you key in information in a spreadsheet document?</p>	<p>document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document. Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	<p>New Planet Scie & Tech Grd 6 TG pg. 73-75</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 72-75</p>		
5	1		Creating a spreadsheet document and keying in information	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Create a spreadsheet document on a computing b. Key information in a spreadsheet document c. Appreciate the importance of computing devices 	<p>What is a spreadsheet document?</p> <p>How do you create a spreadsheet document?</p> <p>How do you key in information in a spreadsheet document?</p>	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document. Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 73-75</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 72-75</p>	<p>Observation</p> <p>Written questions</p>	
	2		Editing a spreadsheet document in a computing device	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Create a spreadsheet document on a computing 	<p>What are the different ways you can edit information in a spreadsheet document?</p>	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 75-77</p>	<p>Observation</p> <p>Written questions</p>	

				<ul style="list-style-type: none"> b. Identify ways of editing a computing device c. Edit a spreadsheet document using a computing device d. Appreciate the importance of computing devices 		<p>Using computing devices, learners to practice how to edit a Spreadsheet document. Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	New Planet Scie & Tech Grd 6 Learners Bk. pg. 75-77		
	3		Editing a spreadsheet document in a computing device	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Create a spreadsheet document on a computing b. Identify ways of editing a computing device c. Edit a spreadsheet document using a computing device d. Appreciate the importance of computing devices 	What are the different ways you can edit information in a spreadsheet document?	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document. Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 75-77</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 75-77</p>	Observation Written questions	
	4		Editing a spreadsheet document in a computing device	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Create a spreadsheet document on a computing b. Identify ways of editing a computing device 	What are the different ways you can edit information in a spreadsheet document?	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document. Learners to practice</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 75-77</p>	Observation Written questions	

				<ul style="list-style-type: none"> c. Edit a spreadsheet document using a computing device d. Appreciate the importance of computing devices 		<p>how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	New Planet Scie & Tech Grd 6 Learners Bk. pg. 75-77		
6	1		Carrying out simple operations on data in spreadsheet	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Identify ways of editing a computing device b. Edit a spreadsheet document using a computing device c. Carry out simple operations on data in a spreadsheet d. Appreciate the importance of computing devices 	How can you perform simple operations such as addition, multiplication, subtraction and division on data in spreadsheet?	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document. Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 78-80</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 79-83</p>	Observation Written questions	
	2		Carrying out simple operations on data in spreadsheet	<p><i>By the end of the lesson the learner should be able to:</i></p> <ul style="list-style-type: none"> a. Identify ways of editing a computing device b. Edit a spreadsheet document using a computing device c. Carry out simple operations on data in a spreadsheet 	How can you perform simple operations such as addition, multiplication, subtraction and division on data in spreadsheet?	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document. Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 78-80</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 79-83</p>	Observation Written questions	

				d. Appreciate the importance of computing devices		In groups, learners to discuss and observe safety precautions when using computing devices.			
3			Carrying out simple operations on data in spreadsheet	<i>By the end of the lesson the learner should be able to:</i> <ol style="list-style-type: none"> Identify ways of editing a computing device Edit a spreadsheet document using a computing device Carry out simple operations on data in a spreadsheet Appreciate the importance of computing devices 	How can you perform simple operations such as addition, multiplication, subtraction and division on data in spreadsheet?	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document.</p> <p>Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 78-80</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 79-83</p>	Observation Written questions	
4			Saving a spreadsheet document on a computing device	<i>By the end of the lesson the learner should be able to:</i> <ol style="list-style-type: none"> Identify ways of editing a computing device Edit a spreadsheet document using a computing device Save a spreadsheet document on a computing device Appreciate the importance of computing devices 	How do you retrieve a spreadsheet document on a computing device?	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document.</p> <p>Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>In groups, learners to discuss and observe safety precautions when using computing devices.</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 81-82</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 84-85</p>	Observation Written questions	

7	1		Retrieving a spreadsheet document on a computing device	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify ways of editing a computing device Retrieve a spreadsheet document saved on a computing device Carry out simple operations on data in a spreadsheet Appreciate the importance of computing devices 	How do you retrieve a spreadsheet document on a computing device?	<p>Learners are guided in Using computing devices, learners to practice how to create a Spreadsheet document and key in information.</p> <p>Using computing devices, learners to practice how to edit a Spreadsheet document.</p> <p>Learners to practice how to save and retrieve Spreadsheet documents stored in different locations of their computing devices</p> <p>Y In groups, learners to discuss and observe safety precautions when using computing devices.</p>	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 82-83</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 86-87</p>	Observation Written questions	
	2		Use of spreadsheets in everyday life	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify ways of editing a computing device Appreciate the use of spreadsheets in everyday life Create and maintain a personal assessment portfolio in a spreadsheet Appreciate the importance of computing devices 	<p>How are spreadsheets useful in our everyday lives?</p> <p>How is a personal assessment portfolio created?</p>	Project: Learners to create and maintain a personal assessment portfolio in spreadsheet to cover one term.	<p>Digital devices Internet, notebooks and pens</p> <p>New Planet Scie & Tech Grd 6 TG pg. 84-86</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 87-89</p>	Observation Written questions	
	3		Use of spreadsheets in everyday life	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify ways of editing a computing device 	Which information should be included in a personal	Project: Learners to create and maintain a personal assessment portfolio in spreadsheet to cover one term.	Digital devices Internet, notebooks and pens	Observation Written questions	

				b. Appreciate the use of spreadsheets in everyday life c. Create and maintain a personal assessment portfolio in a spreadsheet d. Appreciate the importance of computing devices	assessment portfolio?		New Planet Scie & Tech Grd 6 TG pg. 84-86 New Planet Scie & Tech Grd 6 Learners Bk. pg. 87-89		
	4	MATTER	Properties of matter: Expansion and contraction of solids	<i>By the end of the lesson the learner should be able to:</i> a. Carry out activities to demonstrate the expansion and contraction of solids b. Differentiate between expansion and contraction c. Value the importance of matter in daily life	What is expansion? What is contraction?	In groups: Learners are guided to demonstrate expansion and contraction in solids.	Notebooks, pens, metallic ring, metallic ball, water New Planet Scie & Tech Grd 6 TG pg. 87-89 New Planet Scie & Tech Grd 6 Learners Bk. pg. 91-94	Observation Written questions	
8	1		Properties of matter: Expansion and contraction of solids	<i>By the end of the lesson the learner should be able to:</i> a. Carry out activities to demonstrate the expansion and contraction of solids b. Differentiate between expansion and contraction c. Value the importance of matter in daily life	What is expansion? What is contraction?	In groups: Learners are guided to demonstrate expansion and contraction in solids.	Notebooks, pens, metallic ring, metallic ball, water New Planet Scie & Tech Grd 6 TG pg. 87-89 New Planet Scie & Tech Grd 6 Learners Bk. pg. 91-94	Observation Written questions	
	2		Expansion and contraction of liquids	<i>By the end of the lesson the learner should be able to:</i> a. Carry out activities to demonstrate the	Do liquids expand when they are heated?	In groups: Learners are guided to demonstrate expansion and contraction in liquids	A straw, food color, water, marker pen, a bottle, stopwatch	Observation Written questions	

				<p>expansion and contraction of liquids</p> <p>b. Differentiate between expansion and contraction</p> <p>c. Value the importance of matter in daily life</p>			<p>New Planet Scie & Tech Grd 6 TG pg. 89-90</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 94-95</p>		
	3		Expansion and contraction of liquids	<p><i>By the end of the lesson the learner should be able to:</i></p> <p>a. Carry out activities to demonstrate the expansion and contraction of liquids</p> <p>b. Differentiate between expansion and contraction</p> <p>c. Value the importance of matter in daily life</p>	Do liquids expand when they are heated	In groups: Learners are guided to demonstrate expansion and contraction in liquids	<p>A straw, food color, water, marker pen, a bottle, stopwatch</p> <p>New Planet Scie & Tech Grd 6 TG pg. 89-90</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 94-95</p>	Observation Written questions	
	4		Expansion and contraction of gases	<p><i>By the end of the lesson the learner should be able to:</i></p> <p>a. Carry out activities to demonstrate the expansion and contraction of gases</p> <p>b. Watch a video clip on expansion of gases</p> <p>c. Appreciate the importance of matter in daily life</p>	How can you show that gases expand when exposed to heat?	In groups: Learners are guided to demonstrate expansion and contraction in gases	<p>A balloon, a bottle, water, rubber bands, source of heat</p> <p>New Planet Scie & Tech Grd 6 TG pg. 91-92</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 96-97</p>	Observation Written questions	
9	1		Expansion and contraction of gases	<p><i>By the end of the lesson the learner should be able to:</i></p> <p>a. Carry out activities to demonstrate the</p>	How can you show that gases expand when exposed to heat?	In groups: Learners are guided to demonstrate expansion and contraction in gases	A balloon, a bottle, water, rubber bands, source of heat	Observation Written questions	

				expansion and contraction of gases b. Watch a video clip on expansion of gases c. Appreciate the importance of matter in daily life			New Planet Scie & Tech Grd 6 TG pg. 91-92 New Planet Scie & Tech Grd 6 Learners Bk. pg. 96-97		
	2		Application of expansion and contraction in everyday life	<i>By the end of the lesson the learner should be able to:</i> a. Discuss application of expansion and contraction in everyday life. b. Watch a video clip on application of expansion and contraction c. Appreciate the importance of matter in daily life	What is the importance of contraction and expansion in our daily life?	In groups: Discuss application of expansion and contraction in everyday life.	A balloon, a bottle, water, rubber bands, source of heat New Planet Scie & Tech Grd 6 TG pg. 92-94 New Planet Scie & Tech Grd 6 Learners Bk. pg. 97-99	Observation Written questions	
	3		Application of expansion and contraction in everyday life	<i>By the end of the lesson the learner should be able to:</i> a. Discuss application of expansion and contraction in everyday life. b. Watch a video clip on application of expansion and contraction c. Appreciate the importance of matter in daily life	What is the importance of contraction and expansion in our daily life?	In groups: Discuss application of expansion and contraction in everyday life.	A balloon, a bottle, water, rubber bands, source of heat New Planet Scie & Tech Grd 6 TG pg. 92-94 New Planet Scie & Tech Grd 6 Learners Bk. pg. 97-99	Observation Written questions	
	4	Composition of air	Components of air in the atmosphere	<i>By the end of the lesson the learner should be able to:</i> a. Demonstrate that air is a mixture of gases	What does air contain? How can we demonstrate that air is made	Learners to: Use a burning candle to demonstrate the presence of oxygen as a component of air	Clear trough, water, marker pen, ruler, candle, plasticine, cork	Observation Written questions	

				b. Identify the components of air c. Appreciate the importance of air in our lives	up of different components?	Use digital devices to demonstrate the presence of carbon dioxide as a component of air. Brainstorm uses of the different components of air in nature. Observe safety when working with heat	New Planet Scie & Tech Grd 6 TG pg. 94-96 New Planet Scie & Tech Grd 6 Learners Bk. pg. 101-104		
10	1		Components of air in the atmosphere	<i>By the end of the lesson the learner should be able to:</i> a. Demonstrate that air is a mixture of gases b. Identify the components of air c. Investigate components of air in the atmosphere d. Appreciate the importance of air in our lives	What does air contain? How can we demonstrate that air is made up of different components?	Learners to: Use a burning candle to demonstrate the presence of oxygen as a component of air Use digital devices to demonstrate the presence of carbon dioxide as a component of air. Brainstorm uses of the different components of air in nature. Observe safety when working with heat	Clear trough, water, marker pen, ruler, candle, plasticine, cork New Planet Scie & Tech Grd 6 TG pg. 94-96 New Planet Scie & Tech Grd 6 Learners Bk. pg. 101-104	Observation Written questions	
	2		Components of air in the atmosphere	<i>By the end of the lesson the learner should be able to:</i> a. Demonstrate that air is a mixture of gases b. Identify the components of air c. Appreciate the importance of air in our lives	What does air contain? How can we demonstrate that air is made up of different components?	Learners to: Use a burning candle to demonstrate the presence of oxygen as a component of air Use digital devices to demonstrate the presence of carbon dioxide as a component of air. Brainstorm uses of the different components of air in nature. Observe safety when working with heat	Clear trough, water, marker pen, ruler, candle, plasticine, cork New Planet Scie & Tech Grd 6 TG pg. 94-96 New Planet Scie & Tech Grd 6 Learners Bk. pg. 101-104	Observation Written questions	

11	3		Components of air in the atmosphere	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Demonstrate that air is a mixture of gases Investigate components of air in the atmosphere Appreciate the importance of air in our lives 	<p>What does air contain?</p> <p>How can we demonstrate that air is made up of different components?4</p>	<p>Learners to:</p> <p>Use a burning candle to demonstrate the presence of oxygen as a component of air</p> <p>Use digital devices to demonstrate the presence of carbon dioxide as a component of air.</p> <p>Brainstorm uses of the different components of air in nature.</p> <p>Observe safety when working with heat</p>	<p>Clear trough, water, marker pen, ruler, candle, plasticine, cork</p> <p>New Planet Scie & Tech Grd 6 TG pg. 94-96</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 101-104</p>	<p>Observation</p> <p>Written questions</p>	
	4		Use of different components of air	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify the components of air Investigate components of air in the atmosphere Appreciate the importance of air in our lives 	<p>What are the uses of different components of air in nature?</p>	<p>Learners to:</p> <p>Carry out experiments to show the percentage composition of the different components of air</p> <p>Observe safety when working with heat</p>	<p>Clear trough, water, marker pen, ruler, candle, plasticine, cork</p> <p>New Planet Scie & Tech Grd 6 TG pg. 96-98</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 105-109</p>	<p>Observation</p> <p>Written questions</p>	
	1		Use of different components of air	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Identify the components of air Investigate components of air in the atmosphere Appreciate the importance of air in our lives 	<p>What are the uses of different components of air in nature?</p>	<p>Learners to:</p> <p>Carry out experiments to show the percentage composition of the different components of air</p> <p>Observe safety when working with heat</p>	<p>Clear trough, water, marker pen, ruler, candle, plasticine, cork</p> <p>New Planet Scie & Tech Grd 6 TG pg. 96-98</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 105-109</p>	<p>Observation</p> <p>Written questions</p>	

2	FORCE AND ENERGY	Force - friction	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> Define friction Carry out an activity to demonstrate friction Appreciate the use of friction in everyday life 	<p>What is friction?</p> <p>What happens when two surfaces rub against each other?</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>Carton with books, digital devices, internet, a smooth table, pen and a notebook</p> <p>New Planet Scie & Tech Grd 6 TG pg. 99-100</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 111-112</p>	<p>Oral questioning, project, questionnaires, written questions</p>	
3		Advantages and disadvantages friction	<p><i>By the end of the lesson the learner should be able to:</i></p> <ol style="list-style-type: none"> State the advantages of friction Identify activities that demonstrate advantages of friction Carry out simple activities that demonstrate advantages of friction Appreciate the use of friction in everyday life 	<p>Is friction useful to us?</p> <p>How is it useful?</p> <p>Which activities involve friction?</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>Digital devices, internet, notebook, pen, pencil and sharpeners</p> <p>New Planet Scie & Tech Grd 6 TG pg. 101-102</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 112-115</p>	<p>Oral questioning, project, questionnaires, written questions</p>	
4		Disadvantages of 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 identify the disadvantages of friction Demonstrate the disadvantages of friction Appreciate the use of friction in everyday life 	<p>Does friction cause any harm?</p> <p>What are the disadvantages of friction?</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>Pen, water, soap, a towel, internet and digital devices</p> <p>New Planet Scie & Tech Grd 6 TG pg. 103-104</p> <p>New Planet Scie & Tech Grd 6 Learners Bk. pg. 116-118</p>	<p>Oral questioning, project, questionnaires, written questions</p>	