SCHEME OF WORK
MATHEMATICS
GRADE 7 2023
TERM II

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WK	LSN	STRAND	SUB-STRAND	SPECIFIC LEARNING OUTCOMES	KEY INQUIRY QUESTIONS	LEARNING EXPERIENCES	LEARNING RESOURCES	ASSESSMENT METHODS	REFLECTION
1	1	Numbers	Least Common Multiple (LCM)	By the end of the lesson, the learner should be able to: Explain the meaning of Least Common Multiple (LCM) Calculate the LCM of different numbers. Appreciate the use of LCM	What is LCM?	Learners are guided to explain the meaning of Least Common Multiple (LCM) Individually, learners are guided to work out the LCM of different numbers.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	2	Numbers	Least Common Multiple (LCM)	By the end of the lesson, the learner should be able to: Explain the meaning of Least Common Multiple (LCM) Calculate the LCM of different numbers. Appreciate the use of LCM	What is LCM?	Learners are guided to explain the meaning of Least Common Multiple (LCM) Individually, learners are guided to work out the LCM of different numbers.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	3	Numbers	Least Common Multiple (LCM)	By the end of the lesson, the learner should be able to: Explain the meaning of Least Common Multiple (LCM) Calculate the LCM of different numbers. Appreciate the use of LCM	What is LCM?	Learners are guided to explain the meaning of Least Common Multiple (LCM) Individually, learners are guided to work out the LCM of different numbers.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	4	Numbers	Fractions; Comparing fractions	By the end of the lesson, the learner should be able to: Identify numerator and denominator of fractions. Compare different fractions of numbers. Play a game of comparing fractions, such as quizzes Have fun and enjoy playing various games.	What are numerators and denominators?	Learners are guided to identify numerator and denominator of fractions. In pairs, learners are guided to compare different fractions of numbers. In groups, learners to play a game of comparing fractions, such as quizzes	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	5	Numbers	Fractions; Comparing fractions	By the end of the lesson, the learner should be able to: Identify numerator and denominator of fractions. Compare different fractions of numbers. Play a game of comparing fractions, such as quizzes Have fun and enjoy playing various games.	What are numerators and denominators?	Learners are guided to identify numerator and denominator of fractions. In pairs, learners are guided to compare different fractions of numbers. In groups, learners to play a game of comparing fractions, such as quizzes	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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2	1	Numbers	Ordering fractions; Ordering fractions in an ascending and descending order	By the end of the lesson, the learner should be able to: Define ascending order. Arrange fractions in an ascending order. Enjoy arranging fractions in an ascending order.	What does ascending order mean?	Learners to define ascending order. Individually, learners are guided to arrange fractions in an ascending order	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	2	Numbers	Ordering fractions; Ordering fractions in an ascending and descending order	By the end of the lesson, the learner should be able to: Define ascending order. Arrange fractions in an ascending order. Enjoy arranging fractions in an ascending order.	What does ascending order mean?	Learners to define ascending order. Individually, learners are guided to arrange fractions in an ascending order	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	3	Numbers	Ordering fractions; Ordering fractions in an ascending and descending order	By the end of the lesson, the learner should be able to: Define ascending order. Arrange fractions in an ascending order. Enjoy arranging fractions in an ascending order.	What does ascending order mean?	Learners to define ascending order. Individually, learners are guided to arrange fractions in an ascending order	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	4	Numbers	Ordering fractions in an ascending and descending order	By the end of the lesson, the learner should be able to: Define descending order. Arrange fractions in a descending order. Enjoy arranging fractions in a descending order.	What does descending order mean?	Learners to define descending order. Individually, learners to arrange fractions in a descending order	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	5	Numbers	Ordering fractions in an ascending and descending order	By the end of the lesson, the learner should be able to: Define descending order. Arrange fractions in a descending order. Enjoy arranging fractions in a descending order.	What does descending order mean?	Learners to define descending order. Individually, learners to arrange fractions in a descending order	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
3	1	Numbers	Operations involving fractions; Addition and Subtraction of fractions	By the end of the lesson, the learner should be able to: Create a number line and use it to add fractions. Explain the formula of adding different fractions. Have fun and enjoy adding different fractions.	Which formula do you use to add fractions?	In pairs, learners to create a number line and use it to add fractions. In groups, learners to explain the formula of adding different fractions	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	3	Numbers	Operations involving fractions; Addition and Subtraction of fractions	By the end of the lesson, the learner should be able to: Create a number line and use it to add fractions. Explain the formula of adding different fractions. Have fun and enjoy adding different fractions.	Which formula do you use to add fractions?	In pairs, learners to create a number line and use it to add fractions. In groups, learners to explain the formula of adding different fractions	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	4	Numbers	Addition and Subtraction of fractions	By the end of the lesson, the learner should be able to: Create a number line and use it to subtract fractions. Explain the formula of subtracting fractions. Convert the mixed fractions into improper fractions. Have fun and enjoy subtracting different fractions.	Which formula do you use to subtracting fractions? How do you convert mixed fractions into improper fractions?	In pairs, learners are guided to create a number line and use it to subtract fractions. In pairs, learners to explain the formula of subtracting fractions. In pairs, learners are guided to convert the mixed fractions into improper fractions	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	5	Numbers	Addition and Subtraction of fractions	By the end of the lesson, the learner should be able to: Create a number line and use it to subtract fractions. Explain the formula of subtracting fractions. Convert the mixed fractions into improper fractions. Have fun and enjoy subtracting different fractions.	Which formula do you use to subtracting fractions? How do you convert mixed fractions into improper fractions?	In pairs, learners are guided to create a number line and use it to subtract fractions. In pairs, learners to explain the formula of subtracting fractions. In pairs, learners are guided to convert the mixed fractions into improper fractions	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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4	1	Numbers	Multiplication	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the simplified form of 4/10?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	2	Numbers	Multiplication	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the simplified form of 4/10?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	3	Numbers	Multiplication	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the simplified form of 4/10?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	4	Numbers	Reciprocals of fractions	By the end of the lesson, the learner should be able to: Explain the meaning of reciprocal of fractions. Work out the reciprocal of fractions. Have fun and enjoy working out reciprocal of fractions.	What is reciprocal?	Learners to explain the meaning of reciprocal of fractions. In pairs, learners to work out the reciprocal of fractions.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	5	Numbers	Reciprocals of fractions	By the end of the lesson, the learner should be able to: Explain the meaning of reciprocal of fractions. Work out the reciprocal of fractions. Have fun and enjoy working out reciprocal of fractions.	What is reciprocal?	Learners to explain the meaning of reciprocal of fractions. In pairs, learners to work out the reciprocal of fractions.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
5	1	Numbers	Division involving fractions	By the end of the lesson, the learner should be able to: Make fractions cards and divide each fraction Work out division involving fractions. Use an IT device, watch a video on operations involving fractions. Use the link in learner	Which formula do you use to work out division involving fractions?	In groups, learners are guided to make fractions cards and divide each fraction. In groups, learners are guided to use an IT device, watch a video on operations involving fractions. Use the link in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	3	Numbers	Division involving fractions	By the end of the lesson, the learner should be able to: Make fractions cards and divide each fraction Work out division involving fractions. Use an IT device, watch a video on operations involving fractions. Use the link in learner	Which formula do you use to work out division involving fractions?	In groups, learners are guided to make fractions cards and divide each fraction. In groups, learners are guided to use an IT device, watch a video on operations involving fractions. Use the link in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	4	Numbers	Number sequence involving fractions	By the end of the lesson, the learner should be able to: Identify the rule that relates one number to the next consecutive numbers. Determine the common difference to identify rule of a sequence. Use IT devices for learning more on fractions and for enjoyment. Appreciate the use of fractions in real-life situations.	What are the next two numbers in the sequence below 4	In groups, learners are guided to identify rule that relates one number to the next consecutive numbers. In groups, learners are guided to determine the common difference to identify rule of a sequence. In groups, learners are guided to use IT devices for learning more on fractions and for enjoyment	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	5	Numbers	Number sequence involving fractions	By the end of the lesson, the learner should be able to: Identify the rule that relates one number to the next consecutive numbers. Determine the common difference to identify rule of a sequence. Use IT devices for learning more on fractions and for enjoyment. Appreciate the use of fractions in real-life situations.	What are the next two numbers in the sequence below 4	In groups, learners are guided to identify rule that relates one number to the next consecutive numbers. In groups, learners are guided to determine the common difference to identify rule of a sequence. In groups, learners are guided to use IT devices for learning more on fractions and for enjoyment	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
6	1	Numbers	Decimals; Identifying place values of decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the place value of the digit in brackets 365.876 (7)?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	2	Numbers	Decimals; Identifying place values of decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the place value of the digit in brackets 365.876 (7)?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	3	Numbers	Decimals; Identifying place values of decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the place value of the digit in brackets 365.876 (7)?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	4	Numbers	Decimals; Identifying place values of decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the place value of the digit in brackets 365.876 (7)?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	5	Numbers	Total value of decimals	By the end of the lesson, the learner should be able to: Identify the total value of decimals. Determine the total value of different digits in different numbers. Appreciate the total value of decimals.	What is the total value of each digit in the number 7.68231?	In pairs, learners to identify the total value of decimals. In groups, learners are guided to determine the total value of different digits in different numbers.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
7	1	Numbers	Multiplication involving decimals	By the end of the lesson, the learner should be able to: Copy and complete the multiplication table in learner	What is 0.3 x 0.6?	In groups, learners to copy and complete the multiplication table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	2	Numbers	Multiplication involving decimals	By the end of the lesson, the learner should be able to: Copy and complete the multiplication table in learner	What is 0.3 x 0.6?	In groups, learners to copy and complete the multiplication table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	3	Numbers	Multiplication involving decimals	By the end of the lesson, the learner should be able to: Copy and complete the multiplication table in learner	What is 0.3 x 0.6?	In groups, learners to copy and complete the multiplication table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	4	Numbers	Multiplication involving decimals	By the end of the lesson, the learner should be able to: Copy and complete the multiplication table in learner	What is 0.3 x 0.6?	In groups, learners to copy and complete the multiplication table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	5	Numbers	Division involving decimals	By the end of the lesson, the learner should be able to: Make number cards and divide each number. Work out division involving decimals. Appreciate the use of decimals.	Which formula do you use to work out division involving decimals?	In groups, learners to make number cards and divide each number. Individually, learners to work out division involving decimals	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
8	MID TERM ASSESSMENT/BREAK								

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9	1	Numbers	Squares and square roots; Squares of whole numbers	By the end of the lesson, the learner should be able to: Identify squares of whole numbers. Work out squares of numbers using long multiplication. Use a calculator to work out squares of whole numbers. Enjoy working out squares of whole numbers.	What is the area of a square plot of land with length 130m?	In pairs, learners are guided to work out squares of numbers using long multiplication. In pairs, learners to use a calculator to work out squares of whole numbers	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	2	Numbers	Squares and square roots; Squares of whole numbers	By the end of the lesson, the learner should be able to: Identify squares of whole numbers. Work out squares of numbers using long multiplication. Use a calculator to work out squares of whole numbers. Enjoy working out squares of whole numbers.	What is the area of a square plot of land with length 130m?	In pairs, learners are guided to work out squares of numbers using long multiplication. In pairs, learners to use a calculator to work out squares of whole numbers	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	3	Numbers	Squares and square roots; Squares of whole numbers	By the end of the lesson, the learner should be able to: Identify squares of whole numbers. Work out squares of numbers using long multiplication. Use a calculator to work out squares of whole numbers. Enjoy working out squares of whole numbers.	What is the area of a square plot of land with length 130m?	In pairs, learners are guided to work out squares of numbers using long multiplication. In pairs, learners to use a calculator to work out squares of whole numbers	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	4	Numbers	Squares and square roots; Squares of whole numbers	By the end of the lesson, the learner should be able to: Identify squares of whole numbers. Work out squares of numbers using long multiplication. Use a calculator to work out squares of whole numbers. Enjoy working out squares of whole numbers.	What is the area of a square plot of land with length 130m?	In pairs, learners are guided to work out squares of numbers using long multiplication. In pairs, learners to use a calculator to work out squares of whole numbers	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	5	Numbers	Squares of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the chart in learner	What is the square of 2	In groups, learners are guided to copy and complete the chart in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
10	1	Numbers	Squares of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the chart in learner	What is the square of 1.44?	In groups, learners are guided to copy and complete the chart in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	2	Numbers	Squares of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the chart in learner	What is the square of 1.44?	In groups, learners are guided to copy and complete the chart in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	3	Numbers	Squares of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the chart in learner	What is the square of 1.44?	In groups, learners are guided to copy and complete the chart in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	4	Numbers	Squares of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the chart in learner	What is the square of 1.44?	In groups, learners are guided to copy and complete the chart in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	5	Numbers	Square root; Square roots of whole numbers	By the end of the lesson, the learner should be able to: Identify square root of whole numbers. Work out square root of numbers using long multiplication. Use a calculator to work out square root of whole numbers. Enjoy working out square root of whole numbers.	What is the square root of 450, 241?	In pairs, learners are guided to work out square root of numbers using long multiplication. In pairs, learners to use a calculator to work out square root of whole numbers. Individually, learners to identify square root of whole numbers	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
11	1	Numbers	Square roots of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the square root of 4 57/196?	In groups, learners to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	2	Numbers	Square roots of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the square root of 4 57/196?	In groups, learners to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	3	Numbers	Square roots of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the square root of 4 57/196?	In groups, learners to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	4	Numbers	Square roots of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the square root of 4 57/196?	In groups, learners to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	5	Numbers	Square roots of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the square root of 4 57/196?	In groups, learners to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
12	1	Numbers	Square roots of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the square root of 10.89?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	2	Numbers	Square roots of fractions and decimals	By the end of the lesson, the learner should be able to: Copy and complete the table in learner	What is the square root of 10.89?	In groups, learners are guided to copy and complete the table in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	3	Algebra	Algebraic expressions; Forming algebraic expressions	By the end of the lesson, the learner should be able to: Collect all the pens, pencils and rulers and classify the items according to their similarities and differences. Form algebraic expressions. Enjoy forming algebraic expressions.	What are algebraic expressions?	In groups, learners are guided to collect all the pens, pencils and rulers and classify the items according to their similarities and differences. In pairs, learners are guided to form algebraic expressions.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	4	Algebra	Algebraic expressions; Forming algebraic expressions	By the end of the lesson, the learner should be able to: Collect all the pens, pencils and rulers and classify the items according to their similarities and differences. Form algebraic expressions. Enjoy forming algebraic expressions.	What are algebraic expressions?	In groups, learners are guided to collect all the pens, pencils and rulers and classify the items according to their similarities and differences. In pairs, learners are guided to form algebraic expressions.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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13	1	Measurements	Pythagorean relationship; Identifying Pythagorean relationship	By the end of the lesson, the learner should be able to: Use a digital device, search for the names of the sides of a right-angled triangle. Identify Pythagorean relationship. Recognize the sides of a right-angled triangle in different situations Contemplate working easily using Pythagorean theory.	What is the hypotenuse in a right angle triangle whose height is 3 and base 4? Calculate the hypotenuse of the triangle where height is x and base is y?	In groups, learners to use digital device, search for the names of the sides of a right-angled triangle. In groups, learners are guided to recognize the sides of a right-angled triangle in different situations. In groups, learners are guided to identify Pythagorean relationship.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

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	2	Measurements	Pythagorean relationship; Identifying Pythagorean relationship	By the end of the lesson, the learner should be able to: Use a digital device, search for the names of the sides of a right-angled triangle. Identify Pythagorean relationship. Recognize the sides of a right-angled triangle in different situations Contemplate working easily using Pythagorean theory.	What is the hypotenuse in a right angle triangle whose height is 3 and base 4? Calculate the hypotenuse of the triangle where height is x and base is y?	In groups, learners to use digital device, search for the names of the sides of a right-angled triangle. In groups, learners are guided to recognize the sides of a right-angled triangle in different situations. In groups, learners are guided to identify Pythagorean relationship.	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	3	Measurements	Application of Pythagorean relationship in real life	By the end of the lesson, the learner should be able to: Use a digital device, watch a video on the real-life application of the Pythagorean theorem. Use the link in learner	What are the areas in life where the Pythagorean theory can be applied?	In groups, learners to use a digital device, watch a video on the real-life application of the Pythagorean theorem. Use the link in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	

WK	LSN	STRAND	SUB-STRAND	SPECIFIC LEARNING OUTCOMES	KEY INQUIRY QUESTIONS	LEARNING EXPERIENCES	LEARNING RESOURCES	ASSESSMENT METHODS	REFLECTION
	4	Measurements	Application of Pythagorean relationship in real life	By the end of the lesson, the learner should be able to: Use a digital device, watch a video on the real-life application of the Pythagorean theorem. Use the link in learner	What are the areas in life where the Pythagorean theory can be applied?	In groups, learners to use a digital device, watch a video on the real-life application of the Pythagorean theorem. Use the link in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
	3-5	Measurements	Application of Pythagorean relationship in real life	By the end of the lesson, the learner should be able to: Use a digital device, watch a video on the real-life application of the Pythagorean theorem. Use the link in learner	What are the areas in life where the Pythagorean theory can be applied?	In groups, learners to use a digital device, watch a video on the real-life application of the Pythagorean theorem. Use the link in learner	Spark; Story moja Mathematics Learner	Oral questions Oral Report Observation Written exercise	
14	END TERM ASSESSMENT/CLOSING								