



KENYA INSTITUTE OF CURRICULUM DEVELOPMENT

A skilled and Ethical Society

PRIMARY SCHOOL EDUCATION CURRICULUM DESIGN

MATHEMATICS

GRADE 6



First Published 2017

Revised 2024

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ISBN:978-9914-724-87-5

Published and printed by Kenya Institute of Curriculum Development



FOREWORD

The Government of Kenya (GoK) is committed to ensuring that policy objectives for Education, Training and Research meet the aspirations of the Constitution of Kenya 2010, the Kenya Vision 2030, National Curriculum Policy 2018, the United Nations Sustainable Development Goals (SDGs) and the regional and global conventions to which Kenya is a signatory. Towards achieving the mission of Basic Education, the Ministry of Education (MoE) has successfully and progressively rolled out the implementation of the Competency Based Curriculum (CBC) at Pre-Primary, Primary and Junior School levels.

The Kenya Institute of Curriculum Development (KICD) reviewed the curriculum and rationalised the number of learning areas in 2024. The review and rationalisation process was informed by several factors, among them, the recommendations of the Presidential Working Party on Education Reforms (PWPER) and reports of the continuous curriculum monitoring and evaluation activities.

The reviewed curriculum designs build on competencies attained earlier by learners. The designs prepare the learner for smooth transition to the next level. The designs will also afford the learner opportunities for developing requisite competencies and enable them to interact with other people and the environment around them.

The key components of the curriculum designs include the National Goals of Education, the essence statement, general and specific learning outcomes as well as the strands and sub strands. Suggested learning experiences, key inquiry questions, core competencies, Pertinent and Contemporary Issues (PCIs), values and assessment rubrics are also outlined in the curriculum designs.

It is expected that all Government agencies and other stakeholders in Education will use the designs to plan for the effective and efficient implementation of the Competency Based Curriculum.

Thank you.

HON. EZEKIEL OMBAKI MACHOGU, CBS

CABINET SECRETARY,

MINISTRY OF EDUCATION



PREFACE

The Ministry of Education (MoE) rolled out the Competency Based Curriculum (CBC), nationally in 2019, following a national convention in 2017 where the *Basic Education Curriculum Framework* (BECF) was adopted by stakeholders and a national pilot of the curriculum in the Early Years of Education (EYE) in 2018. According to the UNESCO IBE requirements, a curriculum should be reviewed every five years. So, the review of CBC was due from 2023. In view of this, the reviewed curriculum designs will enhance the implementation of CBC since it corporates the lessons learnt from the implementation of CBC so far.

Consistent periodical review of the curriculum is also critical in the realisation of the Vision and Mission of the on-going curriculum reforms as enshrined in the Sessional Paper No. I of 2019 whose title is: *Towards Realizing Quality, Relevant and Inclusive Education and Training for Sustainable Development* in Kenya. The Sessional Paper explains the shift from a content-focused curriculum to a focus on producing an engaged, empowered and ethical citizen.

Therefore, the reviewed curriculum designs will facilitate the inculcation of core competencies in CBC, which are identified as: communication and collaboration, critical thinking and problem solving, creativity and imagination, citizenship, digital literacy, learning to learn and self-efficacy.

The curriculum designs provide suggestions for interactive and differentiated learning experiences linked to the various strands and sub strands and other aspects of the CBC. The designs also outline suggested learning resources and varied assessment techniques. It is expected that the use of these designs will lead to enhanced learning outcomes at various levels, prepare the learner for smooth transition to subsequent grades and make learning enjoyable.

The MoE requests all stakeholders to keep giving feedback on the curriculum designs to inform the review during the next cycle.

Thank you.

DR. BELIO R. KIPSANG, CBS

PRINCIPAL SECRETARY STATE DEPARTMENT FOR

EARLY LEARNING AND BASIC EDUCATION

MINISTRY OF EDUCATION



ACKNOWLEDGEMENT

The Kenya Institute of Curriculum Development (KICD) Act Number 4 of 2013 (Revised 2019) mandates the Institute to develop and review curricula and curriculum support materials for basic and tertiary education and training. The curriculum development process is guided by research, international best practices as well as stakeholder engagement. The Institute conceptualised the Competency Based Curriculum (CBC) in consultation with the Ministry of Education and other stakeholders. According to the *Basic Education Curriculum Framework* (KICD, 2017) the conceptualisation of CBC was informed by 21st Century learning needs, the Constitution of Kenya 2010, the Kenya Vision 2030, the East African Community Protocol, the International Bureau of Education (IBE) Guidelines and the United Nations Sustainable Development Goals (SDGs).

KICD is funded by the Kenya Government to discharge its mandate. The institute also receives support from development partners targeting specific programmes. The reviewed curriculum designs were developed with the support of the World Bank through the Kenya Primary Education Equity in Learning Programme (KPEELP) - a project coordinated by MoE. KICD wishes to most sincerely thank the Government of Kenya, through the MoE and other development partners. More specifically, KICD appreciates the Cabinet Secretary - MoE and the Principal Secretary - State Department of Basic Education,

Additionally, the Institute expresses gratitude to all the KICD staff members, teachers, university lecturers, MoE staff, Semi-Autonomous Government Agencies (SAGAs) and representatives of various stakeholders; among others, for their contributions to the development of the reviewed curriculum designs. Finally, KICD acknowledges the Chief Executive Officers of the Teachers Service Commission (TSC) and the Kenya National Examinations Council (KNEC) as well as the KICD Council for supporting the curriculum review process.

May God bless all the individuals and respective institutions who in one way or another supported the curriculum review process. Indeed, these designs will effectively guide the implementation of the CBC at Primary level, thereby preparing the learner to transition to the Junior School.

Best wishes to all learners and curriculum implementers.

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DIRECTOR/CHIEF EXECUTIVE OFFICER

KENYA INSTITUTE OF CURRICULUM DEVELOPMENT



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NATIONAL GOALS OF EDUCATION

1. Foster nationalism, patriotism, and promote national unity

Kenya's people belong to different communities, races and religions and should be able to live and interact as one people. Education should enable the learner acquire a sense of nationhood and patriotism. It should also promote peace and mutual respect for harmonious co-existence.

2. Promote social, economic, technological and industrial needs for national development

Education should prepare the learner to play an effective and productive role in the nation.

a) Social Needs

Education should instill social and adaptive skills in the learner for effective participation in community and national development.

b) Economic Needs

Education should prepare a learner with requisite competences that support a modern and independent growing economy. This should translate into high standards of living for every individual.

c) Technological and Industrial Needs

Education should provide the learner with necessary competences for technological and industrial development in tandem with changing global trends.

3. Promote individual development and self-fulfillment

Education should provide opportunities for the learner to develop to the fullest potential. This includes development of one's interests, talents and character for positive contribution to the society.



4 Promote sound moral and religious values

Education should promote acquisition of national values as enshrined in the Constitution. It should be geared towards developing a self-disciplined and ethical citizen with sound moral and religious values.

5. Promote social equity and responsibility

Education should promote social equity and responsibility. It should provide inclusive and equitable access to quality and differentiated education; including learners with special educational needs and disabilities. Education should also provide the learner with opportunities for shared responsibility and accountability through service learning.

6. Promote respect for and development of Kenya's rich and varied cultures

Education should instil in the learner appreciation of Kenya's rich and diverse cultural heritage. The learner should value own and respect other people's culture as well as embrace positive cultural practices in a dynamic society.

7. Promote international consciousness and foster positive attitudes towards other nations

Kenya is part of the interdependent network of diverse peoples and nations. Education should therefore enable the learner to respect, appreciate and participate in the opportunities within the international community. Education should also facilitate the learner to operate within the international community with full knowledge of the obligations, responsibilities, rights and benefits that this membership entails.

8. Good health and environmental protection

Education should inculcate in the learner the value of physical and psychological well-being for self and others. It should promote environmental preservation and conservation, including animal welfare for sustainable development.



LESSON ALLOCATION AT UPPER PRIMARY

S/No	Learning Area	Number of Lessons
1.	English	5
2.	Kiswahili / Kenya Sign Language	4
3.	Mathematics	5
4.	Religious Education	3
5.	Science & Technology	4
6.	Agriculture	4
7.	Social Studies	3
8.	Creative Arts	6
9.	Pastoral/Religious Instruction Programme	1
Total		35



LEVEL LEARNING OUTCOMES FOR PRIMARY SCHOOL EDUCATION

By the end of Primary School Education, the learner should be able to:

- a) Use verbal and or non-verbal cues to convey information in varied contexts.
- b) Demonstrate mastery of number concepts to solve problems in day to day life.
- c) Use appropriate social skills, moral and religious values to positively impact the society.
- d) Develop individual talents and interests for self-efficacy.
- e) Make informed decisions as local and global citizens of a diverse, democratic society in an interdependent world.
- f) Devise innovative strategies for environmental conservation and sustainability.
- g) Apply digital literacy skills for learning and enjoyment.
- h) Appreciate Kenya's rich and diverse cultural heritage for harmonious living.

ESSENCE STATEMENT

Mathematics is a learning area that involves computation in numbers and arithmetic, shapes, spatial relations and information processing in the form of data. It is a vehicle of development and improvement of a country's economic development. By learning mathematics, learners develop an understanding of numbers, logical thinking skills and problem-solving skills. Mathematics is applied in business, social and political worlds. At this level mathematics will build on the competencies acquired by the learner in the early years of education. Learning mathematics will also enhance the learner' competencies in numeracy as a foundation of STEM at the higher levels of Education cycle. Mathematics is also a subject of enjoyment and excitement as it gives learners opportunities for creative work and fun.



SUBJECT GENERAL LEARNING OUTCOMES

By the end of Primary Education, the learner should be able to:

- a) Demonstrate mastery of number concepts by working out problems in day-to-day life.
- b) Apply measurement skills to find solutions to problems in a variety of contexts.
- c) Apply properties of geometrical shapes and spatial relationships in real life experiences.
- d) Apply data handling skills to solve problems in day-to-day life.
- e) Analyze information using algebraic expressions in real life situations.
- f) Apply mathematical ideas and concepts to other learning areas or learning areas: and in real life contexts.
- g) Develop confidence and interest in mathematics for further learning and enjoyment.
- h) Develop values and competencies for a cohesive harmonious living in the society.
- i) Manage pertinent and contemporary issues for enhanced inter-personal relationships.



SUMMARY OF STRANDS AND SUB STRANDS

STRANDS	SUB STRANDS	Suggested Number of Lessons
1.0 Numbers	1.1 Whole Numbers	20
	1.2 Multiplication	6
	1.3 Division	6
	1.4 Fractions	12
	1.5 Decimals	12
	1.6 Inequalities	8
2.0 Measurement	2.1 Length	14
	2.2 Area	6
	2.3 Capacity	6
	2.4 Mass	14
	2.5 Time	10
	2.6 Money	8
.0 Geometry	3.1 Lines	6
	3.2 Angles	6
	3.3 3-D Objects	6
.0 Data Handling	4.1 Bar Graphs	10
	Total number of lessons	150

Note: The suggested number of lessons per sub strand may be less or more depending on the context.



STRAND 1.0: NUMBERS

Strand	Sub-Strand	Specific Learning Outcomes	Suggested LearningExperiences	Suggested Key Inquiry Question(s)
1.0 Numbers	1.1 Whole Numbers (20 Lessons) • Place value and total value • Numbers in symbols and words • Rounding off numbers • Squares and square roots of numbers	By the end of the sub-strand, the learner should be able to: a) use place value and total value of digits up to millions in real life, b) use numbers up to millions in symbols in real life, c) read and write numbers up to 100,000 in words in real life, d) order numbers up to 100,000 in real-life situations, e) round off numbers up to 100,000 to the nearest thousand in different situations, f) apply squares of whole numbers up to 100 in different situations,	 The learner is guided to: work with peers to identify place value of digits up to millions using place value apparatus, work in teams to read numbers up to millions insymbols from number charts/cards, read and write numbers up to hundred thousand in words from number charts/cards, discuss and read numbers up to millions in symbols from number charts or cards, discuss with peers and form different numbers by rearranging digits of a number up to 100,000, discuss in teams and round off numbers up to hundred thousand to the nearest 1,000 from number cards and share with other groups, multiply a given number by itself and 	How do we read and write numbers in symbols and in words?



g) apply square roots of perfect squares up to 10,000 in different situations, h) appreciate use of who numbers in real-life situations.	 number, work out the square root of a given number and recognise the value which

Critical thinking and problem solving: learners form different numbers by rearranging digits of a given number.

Values:

Unity: learners, in pairs or groups, harmoniously identify total value of digits up to millions using place value apparatus.

Pertinent and Contemporary Issues (PCIs):

Social cohesion: learners work cohesively with peers and identify the square root of a given number as a value which when multiplied by itself results in the given number.

Safety: leaners work together to create awareness on the levels of congestion on the roads using charts and discuss how to address road safety issues

Link to other learning areas:

Learners read and write numbers in words which is enhanced from skills in Languages.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested LearningExperiences	Suggested Key Inquiry Question(s)
1.0 Numbers	1.2 Multiplication (6 Lessons) • Multiplication of numbers • Making patterns	By the end of the sub-strand, the learner should be able to; a) multiply up to a 4-digit number by a 2-digit number in real-life situations, b) estimate products by rounding off numbers being multiplied to the nearest ten in real-life situations, c) make patterns involving multiplication of numbers not exceeding 1,000 in different situations, d) appreciate use of multiplication in reallife.	The learner is guided to: • multiply up to a 4-digit number by a 2-digit number using; - fact families - skip counting - multiplication chart - expanded form - digital devices, - estimate products using; - rounding off factors - compatibility ofnumbers, - make patterns involving multiplication with products not exceeding 1,000 using number cards, - work with peers and play games involving multiplication using digital devices or other resources such as number cards.	How do we multiply numbers?



Creativity and imagination: learner makes patterns involving multiplication with products not exceeding 1,000 using number cards.

Values:

Integrity: Learner multiplies up to a 4-digit number by a 2-digit number using skip counting and demonstrates honesty in their results.

Pertinent and Contemporary Issues (PCIs):

Self-esteem: Learner develops confidence as they estimate products using rounding off factors which builds self-esteem.

Link to other learning areas:

Learner estimates quantities of seeds or fertiliser required for planting different crops as learnt from Agriculture.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
1.0 Numbers	1.3 Division (6 Lessons) • Division of numbers • Combined operations	By the end of the sub-strand the learner should be able to; a) divide up to a 4-digit number by up to a 3-digit number where the dividend is greater than the divisor in real-life situations, b) estimate quotients by rounding off the dividend and divisor to the nearest ten in real-life situations, c) perform combined operations involving addition, subtraction, multiplication and division up to 3-digit number, d) appreciate use of division of whole numbers in real life.	The learner is guided to: - divide up to a 4-digit number by up to a 3-digit number and share the answers where the dividend is greater than the divisor using; - relationship between multiplication and division - long method, - work out quotients by rounding off the dividend and divisor to the nearest ten, - work out questions involving two, three orfour operations up to 3-digit numbers, - divide whole numbers using digital devices or other resources.	Where is division used in real life?



Communication and collaboration: learner discusses with peers the relationship between multiplication and division using examples.

Values:

Unity: learner works together with others amicably to divide up to a 4-digit number by up to a 3-digit number and shares answers.

Pertinent and Contemporary Issues (PCIs):

Learner divides whole numbers using digital devices or other resources as they observe safety.

Link to other learning areas:

Learner divides quantities such as ingredients for cooking as learnt from Agriculture.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
1.0 Numbers	 1.4 Fractions (12 Lessons) Addition and subtraction of fractions Reciprocals Squares of fractions Fractions as percentages 	By the end of the sub-strand the learner should be able to: a) add fractions using LCM in different situations, b) subtract fractions using LCM in different situations, c) add mixed numbers in different situations, d) subtract mixed numbers in different situations, e) identify reciprocal of proper fractions up to a 2-digit number in different situations, f) work out squares of fractions with a numerator of one digit and denominator of a 2-digit number in	 The learner is guided to: identify LCM of numbers given from number cards, add and subtract fractions using LCM by listing multiples, add and subtract mixed fractions by converting the fractions to improper fractions, add and subtract mixed fractions by adding and subtracting whole number and fraction parts separately, list the inverse of numbers between 1 and 10, calculate the reciprocal of a number by dividing 1 (one) by the number. Always start by working out the reciprocal of whole numbers before solving the reciprocal of proper fractions up to a 2-digit number, discuss the various reciprocals of a proper fraction, calculate squares of fractions through multiplication or practically, 	 1. How do we add or subtract fractions? 2. Where is percentage used in day-to-day life?



different situations, g) express a fraction as a percentage in different situations, h) convert percentage to fractions in different situations, i) appreciate use of fractions in real life.	 change fractions to equivalent fractions with denominator 100 through multiplication, identify a percentage as a fraction with denominator 100, work with peers on how to change fractions to percentages and vice versa, play digital games involving fractions.
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Learning to learn: learner works out the reciprocal of whole numbers before solving the reciprocal of proper fractions.

Values:

Unity: learner works harmoniously with peers and discusses reciprocals of proper fractions.

Pertinent and Contemporary Issues (PCIs):

Learner cohesively works together with others to calculate squares of fractions through multiplication to enhance social cohesion.

Link to other learning areas:

Learner uses fractional parts of a canvas or drawing materials to draw different patterns as learnt from Creative Arts.



Strand	Sub-Strand	Specific Learning Outcomes	00	Suggested Key Inquiry Question(s)
1.0 Numbers	1.5 Decimals (12 Lessons) • Decimals up to ten thousandth: • Rounding off decimals • Conversions in decimals • Addition and subtraction in decimals	b) round off decimals up to 3 decimal places indifferent situations,	 work out place value of decimals up to ten thousandths using place value apparatus, relate place value of decimals up to ten thousandths to the number of decimal places, discuss and round off decimals up to 3 decimal places, change decimals to fractions using a square/rectangular grid, change fractions to decimals using a 	applicable in real life?



Communication and collaboration: learner discusses and relates place value of decimals up to ten thousandths to the number of decimal places.

Values:

Responsibility: learner adds decimals up to 4-decimal places using place value apparatus and shows responsibility by taking care of the apparatus.

Pertinent and Contemporary Issues (PCIs):

Learner adds decimals up to 4-decimal places using place value apparatus and share answers or working strategies with one another as part of Peer education.

Link to other learning areas:

Learner acquires new mathematical terms as they discuss and round off decimals up to 3 decimal places as acquired from Languages.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
1.0 Numbers	1.6 Inequalities (8 Lessons) Forming, simplifying and solving simple inequalities	By the end of the sub-strand, the learner should be able to; a) form simple inequalities in one unknown involving real-life situations, b) simplify inequalities in one unknown involving real-life situations, c) solve simple inequalities in one unknown involving real-life situations, d) appreciate use of inequalities in real-life situations.	 The learner is guided to: discuss meaning of inequality symbols '> 'and '< ', form inequalities in one unknown using different operations, simplify inequalities in one unknown using cards or charts, work out simple inequalities involving one unknown, play games involving inequalities using digital devices or other resources. 	How do we solve simple inequalities?

Self-efficacy: learner confidently works out simple inequalities involving one unknown.

Values:

Responsibility: as learner works with peers to use IT devices carefully to simplify inequalities.

Pertinent and Contemporary Issues (PCIs):

Social cohesion: Learner works together with others harmoniously to form inequalities in one unknown to enhance social cohesion.

Link to other learning areas:

Learner uses new terms used in inequalities to enhance vocabulary in Languages.



Suggested Assessment Rubric

Suggested Assessment Rubric					
Level	Exceeds Expectations	Meets Expectations	Approaches Expectations	Below Expectations	
Indicator					
Ability to use place	The learner uses place value and total value of	The learner uses place value and total value of	The learner uses place	The learner uses place	
value and total value			value or total value of digits	varae or total varae or	
of digits up to	1 -			digits up to hundreds of	
millions	•	correctly		thousands correctly	
	systematically				
Ability to read and	The learner reads and	The learner reads and	The learner reads or writes	The learner reads or writes	
write numbers in			numbers in symbols or in	numbers in symbols or in	
symbols and in words	symbols and in words	symbols and in words		words partially accurately	
	accurately and fluently.	accurately			
Ability to order and	The learner orders and	The learner orders and	The learner orders or	The learner orders or	
round off numbers	rounds off numbers up	rounds off numbers up	rounds off numbers up to	rounds off numbers up to	
up to 100,000	to 100,000 correctly and	to 100,000 correctly	100,000 correctly	50,000 correctly	
	systematically.	·		·	
Ability to apply		The learner applies	The learner applies squares	The learner applies squares	
squares and square	squares and square roots	squares and square roots	or square roots of whole	or square roots of whole	
roots of whole	of whole numbers up to	of whole numbers up to	numbers up to 100	numbers up to 70 correctly	
numbersup to 100	100 correctly and	100 correctly	correctly		
	consistently				
Ability to Multiply	The learner multiplies	The learner multiplies up	The learner multiplies up to	The learner multiplies up to	
up to a 4-digit	up to a 4 digit number	to a 4-digit number by a 2	a 3-digit number by a 2	a 2-digit number by a 1	
number by a 2-digit	by a 2 digit number	digit number correctly	digit number correctly	digit number correctly	
number	correctly and			_	
	consistently				



A1:1:4 1 CC	TEL 1 1 CC	TD1 1 1 CC	TD1 1 1 CC	TD1 1 1 CC
Ability to round off	The learner rounds off	The learner rounds off	The learner rounds off	The learner rounds off
decimals up to 3	_	_	decimals up to 2 decimal	decimals to 1 decimal place
decimal places	places correctly and	places correctly	places correctly	correctly
	logically			
Ability to create	The learner creates	The learner creates	The learner creates patterns	The learner creates patterns
patterns involving	patterns involving	patterns involving	involving any two of;	involving any one of;
addition, subtraction	addition, subtraction	addition, subtraction and	addition, subtraction or	addition, subtraction or
and multiplication	and multiplication	multiplication accurately.	multiplication accurately	multiplication accurately
1	accurately and			
	creatively.			
Ability to divide up	The learner divides up	The learner divides up to	The learner divides upto a	The learner divides up to a
to a 4-digit number		a 4-digit number by upto		3-digit number by a 1-digit
by up to a 3-digit				number correctly
number		a 3 digit number correctly	2-digit number correctly	
	correctly and			
	consistently			
Ability to add and	The learner adds and	The learner adds and	The learner adds or	The learner Adds or
subtract fractions	subtracts fractions using	subtracts fractions using	subtracts fractions using	subtracts fractions using
using LCM	LCM correctly and	LCM correctly	LCM correctly	LCM partially correctly
	proficiently	Č		
Ability to convert	The learner converts	The learner converts	The learner converts	The learner Converts
fractions to		fractions to percentages	fractions to percentages or	fractions to percentages
percentages and	1	and percentages to	percentages to fractions	correctly
percentages to			ř –	
fractions	1	fractions correctly	correctly	
1140110115	systematically			



Ability to identify decimals up to ten thousandths	-	The learner identifies decimals up to ten thousandths correctly	The learner identifies decimals upto thousandths correctly	The learner identifies decimals up to hundredths correctly
Ability to convert	The learner converts	The learner converts	The learner converts	The learner converts
decimals to fractions	decimals to fractions	decimals tofractions and	decimals to fractions or	decimals to fractions or
and fractions to	and fractions to	fractions todecimals	fractions to decimals	fractions to decimals
decimals	decimals correctly and	correctly	correctly	partially correctly
	logically			
Ability to convert	The learner converts	The learner converts	The learner converts	The learner converts
decimals to	decimals to percentages	decimals topercentages	decimals to percentages or	decimals to percentages or
percentages and	and percentages to	and percentages to	percentages to decimals	percentages to decimals
percentages to	decimals correctly and	decimals correctly	correctly	partially correctly
decimals	logically			
Ability to add and	The learner adds and	The learner adds and	The learner adds or	The learner adds or
subtract decimals up to	subtracts decimals up	subtracts decimals upto	subtracts decimals up to 4-	subtracts decimals up to 4-
4-decimal places	to 4- decimal places	4- decimal places	decimal places correctly	decimal places partially
	correctly and logically	correctly		correctly
Ability to form,	The learner forms,	The learner forms,	The learner forms,	The learner forms
simplify and solve	simplifies and solves	simplifies and solves	simplifies or solves	inequalities in one
inequalities in one	inequalities in one	inequalities in one	inequalities in one	unknown accurately
unknown	unknown accuratelyand	unknown accurately	unknown accurately	
	logically			



STRAND 2.0: MEASUREMENT

Strand	Sub -Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
2.0	2.1 Length	By the end of the sub-strand, the	The learner is guided to:	1. 1. Why do we
Measurement	 Millimetre (mm) as a unit of Measuring length Conversions in length Operations in length Circumference of a circle 	learner should be able to; a) use the millimetre (mm) as a unit of measuring length in different situations, b) establish the relationship between the millimetre and centimetre in different situations, c) convert centimetres and millimetres to millimetres in different situations, d) add centimetres and millimetres in different situations, e) subtract centimetres and millimetres in different situations, f) multiply centimetres and millimetres by whole	 discuss and identify the millimetre as a unit of measuring length using a ruler, measure length of objects in millimetres using a ruler, measure a given length in cm and mm to establish the relationship between mm and cm, convert mm to cm and cm to mm when measuring lengths of different objects and comparing results, measure lengths of different objects in the environment, determine lengths in mm and cm in addition, subtraction, multiplication and division and discuss the answers, sketch the circumference, 	day-to-day life? 2. 2. What do we use to measure length in real life?



of acircle practically, i) identify the relationship between circumference and diameter in different situations, j) appreciate use of length in real-lifesituations. • play games involving length in centimetres and millimetres using digital devices or other resources.	 g) divide centimetres and millimetres by whole numbers in real-life situations, h) determine the circumference of acircle practically, divide circumference by diameter to get pi (π), play games involving length in centimetres and millimetres
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Creativity and imagination: learner sketches the circumference, diameter and radius of a circle practically.

Values:

Unity: learner works amicably with peers to determine lengths in centimetres and millimetres in addition, subtraction, multiplication and division and discuss the answers.

Pertinent and Contemporary Issues (PCIs):

Learner chooses appropriate units for measuring lengths of different objects in the environment as enhanced from Environmental Education.

Link to other learning areas:

Learner handles objects with care when measuring lengths of different objects in the school compound for play activities in Creative Arts.



Strand	Sub- Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
2.0 Measurement	2.2 Area (6 Lessons) Area of triangles and combined shapes	By the end of the substrand, the learner should be able to; a) work out area of triangles in square centimetres (cm²), b) work out area of combined shapes involving squares, rectangles and triangles in cm², c) estimate the area of circles by counting squares, d) appreciate the use of cm² in working out area in real life.	 The learner is guided to: establish that the area of a triangle is equal to a half of the area of a rectangle or a square when the rectangle or the square is divided by a diagonal, work out the area of triangles in cm² using the relationship between a rectangle and a triangle (Area of a triangle is equal to ½ area of a rectangle or square. A = ½ (Lx W), sketch a circle on a unit square grid and count the full squares to estimate the area of circles and compare answers, prepare own combined shapes involving rectangles, squares, triangles and ask peers to determine the area, play games involving area using digital tools or other resources. 	Where is area used in real life?



Creativity and imagination: learner works out the area of triangles in cm² using the relationship between a rectangle and a triangle.

Values:

Love: learner sketches a circle on a unit square grid and counts the full squares to estimate the area of circles and compare answers with one another.

Pertinent and Contemporary Issues (PCIs):

Learner confidently establishes that the area of a triangle is equal to a half of the area of a rectangle or a square when the rectangle or the square is divided by a diagonal to enhance self-esteem.

Link to other learning areas:

Learner explores their environment to calculate area of different places such as play fields within the community as learnt in Social Studies.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
2.0 Measurement	Capacity (6 Lessons) Capacity in centimetres (cm³), millilitres and litres Conversions in capacity	By the end of the sub-strand, the learner should be able to; a) identify the relationship among cubic centimetres (cm³), millilitres and litres in real life, b) convert litres to millilitres in different situations, c) convert capacity in millilitres to litres in different situations, d) appreciate use of cm³ and litres in measuring capacity in real life.	litres, discuss answers and share with others, change capacity in litres to	 How can we measure capacity? Where is capacity applicable in real life?



Critical thinking and problem solving: learner works out the relationship between cm³, millilitres and litres through measuring capacities practically.

Values:

Peace: learner works together with others harmoniously to measure capacity in millilitres and litres and agree on answers.

Pertinent and Contemporary Issues (PCIs):

Learner changes capacity in litres to millilitres using containers from the environment as part of Environmental education.

Links to other learning areas:

Learner takes accurate measurements of liquids using different containers from the immediate environment as part of Science and Technology.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
2.0 Measurement	 2.4 Mass (14 Lessons) Tonne as a unit for measuring mass Conversions in mass Operations in mass 	By the end of the substrand, the learner should be able to; a) identify the tonne as a unit for measuring mass in real life, b) identify items measured in tonnes in real life, c) identify the relationship between the kilogramme and the tonne, d) estimate mass in tonnes in different situations, e) convert kilogrammes totonnes and tonnes to kilogrammes in real-lifesituations, f) add tonnes and kilogrammes in real lifesituations,	 The learner is guided to: discuss tonne as a unit of measuring mass discuss items in the environment such as loaded lorries, whose mass may be measured in tonnes establish the relationshipbetween the kilogramme and the tonne (1000kg = 1 tonne). estimate mass in tonnes of various objects found in the environment. change kilogrammes to tonnes and tonnes to kilogrammes. determine mass of items in tonnes and 	mass? 2. In what situations would the tonnes be more applicable to use when measuring mass?



g) subtract tonnes and kilogrames in real-life	kilogrammes using different operations
situations, h) multiply tonnes and kilogrammes by whole numbers in real-life	involving addition, subtraction, multiplication and division.
situations, i) divide tonnes and kilogrammes by whole numbers in real-life situations,	 use digital weighing machines to measure mass of different items.
j) appreciate use of the kilogramme and tonne inmeasuring mass.	

Digital literacy: learner uses digital weighing machines to measure mass of different items.

Values:

Integrity: learner honestly determines mass of items kilogrammes using different operations involving addition, subtraction, multiplication and division.

Pertinent and Contemporary Issues (PCIs):

Learner discusses with others items in the environment such as loaded lorries, whose mass may be measured in tonnes and their impact on roads as learnt in Environmental education.

Link to other learning areas:

Learner discusses with others transit trucks that carry grains in tonnes to different places as learnt in Social Studies.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
2.0 Measurements	2.5 Time (10 Lessons) • Time in a.m. and p.m • Conversions in time • Interpreting travel timetables	By the end of the sub-strand, the learner should be able to; a) identify time in a.m. and p.m. in day-to-day life experiences, b) write time in a.m. and p.m. in day-to-day life, c) relate time in a.m. and p.m. to the 24h clock system, d) convert time from 12h to 24h and 24h to 12h system, e) interpret travel timetable in different situations, f) appreciate use of time in both 12h and 24h systems.	 The learner is guided to: discuss time in a.m. and p.m. from digital and analogue clocks. determine time in a.m. and p.m. from digital and analogue clocks. equate time in a.m. and p.m.to the 24h clock system using a chart. change time from the 12h to 24h system and 24h to 12h using a chart. interpret travel timetables to create travel schedules for different events. determine time durations of travelling using travel timetables within the country. check local time using digital clock or analogue in 12h and 24h systems. 	How do we read and tell time?



Learning to learn: learner determines time in a.m. and p.m. from digital and analogue clocks.

Values:

Integrity: learner observes time in various activities and is punctual.

Pertinent and Contemporary Issues (PCIs):

Learner discusses the transit trucks that carry grains in tonnes to different places as learnt from Social Studies. Learners determine time durations of travelling using travel timetables within the country as enhanced in Citizenship.

Link to other learning areas:

Learner records time taken to perform in different games such as athletics as done in Creative Arts.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
2.0 Measurements	 2.6 Money (8 lessons) Simple budget Buying and selling prices Profit and loss taxes 	By the end of the sub-strand, the learner should be able to; a) prepare simple budget in different situations, b) determine buying and selling prices of different items in the community, c) work out profit from sales of different items in the community, d) calculate loss realised from sales of different items in the community, e) identify types of taxes in different situations, f) appreciate use of money in real-life situations.	 The learner is guided to: identify different shopping items in the community or at home especially food items and prepare a simple budget, discuss the meaning of buying and selling price, determine buying and selling prices of different items in the community, discuss the meaning of profit and loss in real-life situations and share with peers, discuss and determine profit and loss by practising buying and selling from the classroom model shop, discuss income and value added tax (VAT) from receipts issued by shops and retailers as a form of tax, 	How can you make profit ina business?



	use	IT devices or other resources	
	to e	xplore more on money.	

Communication and collaboration: Learner discusses with others the meaning of profit and loss in real-life situations and shares with peers.

Values:

Integrity: Learner honestly determines buying and selling prices of different items in their classroom model shop.

Pertinent and Contemporary Issues (PCIs):

Learner discusses with others income and value added tax (VAT) as a form of tax as part of financial literacy.

Links to other learning areas:

Learner participates in making budgets for buying food at home as learnt from Agriculture.



Suggested Assessment Rubric

Level	Exceeds Expectations	Meets Expectations	Approaches	Below Expectations
Indicator	_	-	Expectations	
Ability to convert	The learner converts	The learner converts	The learner converts	The learner converts
centimetres to millimetres	centimetres to millimetres	centimetres to	centimetres to	centimetres to
and millimetres to	and millimetres to	millimetres and	millimetres or	millimetres correctly
centimetres	centimetres correctly and	millimetres to	millimetres to	
	proficiently	centimetres correctly	centimetres correctly	
Ability to add, subtract,	The learner adds, subtracts,	The learner adds,	The learner adds,	The learner adds or
multiply and divide	multiplies and divides	subtracts, multiplies	subtracts, multiplies or	subtracts centimetres or
centimetres and	centimetres and millimetres	and divides centimetres	divides centimetres or	millimetres correctly
millimetres	correctly and proficiently	andmillimetres	millimetres correctly	
		correctly		
Ability to measure the	The learner measures the	The learner measures	The learner measures	The learner measures
circumference of a circle	circumference of a circle	the circumference of a	the circumference of	the circumference of
	correctly and efficiently	circle correctly	a circle less efficiently	a circle partially
				correctly
Ability to work out area of	The learner works out area	The learner works out	The learner works out	The learner works out
triangle and combined	of triangle and combined	area of triangle and	area of triangle or	area of triangle
shapes	shapes correctly and	combined shapes	combined shapes	correctly
	systematically	correctly	correctly	
Ability to identify the	The learner identifies the	The learner identifies	The learner identifies	The learner Identifies
relationship among cm ³ ,	relationship among cm ³ ,	the relationship among	the relationship	the relationship
millilitres and litres	millilitres andlitres	cm ³ , millilitres and	between millilitres and	between millilitres and
	correctly and logically	litres correctly	litres correctly	litres partially correctly



	L	lene a	l	L
Ability to convert litres to		The learner converts	The learner converts	The learner converts
millilitres and millilitres to	to millilitres and millilitres	litres to millilitres and	litres to millilitres or	litres to millilitres
litres	to litres correctly and	millilitres to litres	and millilitres to litres	correctly
	logically	correctly	correctly with help	
Ability to identify the	The learner identifies the	The learner identifies	The learner identifies	The learner identifies
relationship between the	relationship between the	the relationship	the relationship	the relationship
kilograms and the tonne	kilograms and the tonne and	between the kilograms	between the kilograms	between the kilograms
and converts tonnes to	converts tonnes to	and the tonne and	and the tonne or	and the tonne correctly
kilograms and	kilograms and	converts tonnes to	converts tonnes to	
kilograms to tonnes	kilograms to tonnes	kilograms and tonnes to	kilograms or tonnes to	
	correctly and logically	kilograms correctly	kilograms correctly	
Ability to add, subtract,	The learner adds subtracts,	The learner adds	The learner adds	The learner adds or
multiply and divide tonnes	multiplies and divides	subtracts, multiplies	subtracts, multiplies or	subtracts tonnes or
and kilograms	tonnes and kilograms	and divides tonnes and	divides tonnes or	kilograms accurately
	accurately and proficiently	kilograms accurately	kilograms accurately	
Ability to identify and	The learner identifies and	The learner identifies	The learner identifies or	The learner identifies
write time in a.m. and p.m.	writes time in a.m.and p.m.	and writes time in a.m.	writes time in a.m. or	time in a.m. or p.m.
	accurately and consistently	and p.m.accurately	p.m.accurately	accurately
Ability to convert time	The learner converts time	The learner converts	The learner converts	The learner converts
from 12h to 24h and 24h to	from 12h to 24h and 24h to	time from 12h to 24h	time from 12h to 24h or	time from 12h to 24h
12h system and interpret	12h system and Interprets	and 24h to12h system	24h to12h system or	system or Interprets
traveltimetables	travel timetables accurately	and Interprets travel	· ·	travel timetables
	and logically	timetables accurately	timetables accurately	partially accurately
				<u> </u>



	simple budget and determines buying and	determines buying and	determines buying or selling price accurately	The learner prepares a simple budget or determines buying or selling price partially accurately
identify types of taxes	and identifies types of taxes accurately and consistently	profit and loss from	profit or loss from sales or identifies types of taxes accurately	The learner works out profit or loss from sales or Identifies types of taxes partially accurately



STRAND 3.0: GEOMETRY

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
3.0 Geometry	 3.1 Lines (6 Lessons) Parallel lines Bisecting lines Perpendicular lines 	, ,	 The learner is guided to: construct parallel lines using geometrical instruments and other writing materials, bisect lines using geometrical instruments, draw perpendicular lines using geometrical instruments, share digital devices and other resources to draw parallel lines. 	Why do we need to draw lines?

Core Competencies to be developed:

Creativity and imagination: as learner bisects lines using ruler and compasses.

Values:

Responsibility: Learner carefully shares digital devices and other resources to draw parallel lines.

Pertinent and Contemporary Issues (PCIs):

Learner exercises caution as they use geometrical instruments in construction of parallel lines as they observe safety measures.

Link to other learning areas::

Learner constructs lines that can be used in creative drawing as part of Creative Arts.



Strand	Sub-Strand	Specific Learning outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
3.0 Geometry	 3.2 Angles (6 Lessons) Angles on a straight line Measure angles Sum of angles Equilateral, right-angled and isosceles triangles Interior angles 	By the end of the sub-strand, the learner should be able to; a) identify angles on a straight line at a point in different situations, b) measure angles on a straight line at a point in different situations, c) work out sum of angles on a straight line in different situations, d) determine the sum of angles in rectangles and triangles, e) construct equilateral, rightangled and isosceles triangles, f) measure the interior angles of equilateral, right-angled and isosceles triangles, g) appreciate use of angles in real life.	 edges, draw a line that cuts the straight line to form an angle. Measure and write the size(s) of angles formed. Compare the sizes of angles with your classmates, work out the sizes of various angles on a straight line, 	



Self-efficacy: Learner confidently and practically establishes sum of the interior angles in a rectangle and triangle.

Values:

Unity: Learner works harmoniously with others to compare the sizes of angles.

Pertinent and Contemporary Issues (PCIs):

Learner practically establishes the sum of angles in a triangle and rectangles from different objects in the environment as enhanced in Environmental education.

Link to other learning areas:

Learner draws lines and angles that can be used in drawing and painting in Creative Art.



Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key
				Inquiry
				Question(s)
3.0	3.3	By the end of the sub-strand, the	The learner is guided to:	How do we use
Geometry	3-D Objects (6 Lessons) • Vertices,	learner shouldbe able to; a) identify vertices, faces and edges in cuboids and cubes in different situations,	 discuss and collect 3-D objects and safely keep them as part of their role in environmental conservation, identify and relate cuboids and cylinders 	containers in daily life?
	faces and edges Plane figures in 3-D objects	 b) identify faces and edges of cylinders in different situations, c) describe plane figures in 3-D objects in the environment, d) appreciate use of 3-D objects in real life. 	circular shapes on the nets,	

Creativity and imagination: Learner opens up nets of cuboids, cubes and cylinders.



Values:

Learner discusses with others and collect 3-D objects and safely keep them as part of their role in environmental conservation to enhance Patriotism.

Pertinent and Contemporary Issues (PCIs):

Learner discusses with others rectangular, square and circular shapes on the nets and respect each other's views as part of social cohesion.

Link to other learning areas:

Learner discusses with others the differences between 3-D objects in terms of faces, edges and vertices in drawing and improves language skills.



Suggested Assessment Rubric

	Exceeds Expectations	_		Below Expectations
Indicator			Expectations	
parallel and perpendicular lines	The learner constructs parallel and perpendicular lines accurately and systematically	F	The learner constructs parallel or perpendicular lines correctly	The learner constructs parallel lines correctly
Ability to bisect lines	The learner bisects lines	The learner bisects	The learner bisects lines	The learner bisects lines
	through construction,	lines through	through construction,	through construction or
J	identifies and measures	construction, identifies	identifies or measures	Identifies angles on a
	angles on a straight line at	and measures angles on	angles on a straight line at	straight line at a point
-	a point correctly and consistently	a straight line at a point correctly	a point correctly	correctly
Ability to work out sum	The learner works out sum	The learner works out	The learner works out	The learner works out
of angles on a straight	of angles on a straight line,	sum of angles on a	sum of angles on a	sum of angles on a
line, rectangles and	rectangles and triangles	straight line, rectangles	straight line, rectangles or	straight line accurately
triangles	accurately and correctly	and triangles accurately	triangles accurately	
and isosceles triangles and measure their interior angles	Constructs equilateral, right-angled and isosceles triangles and measures their interior angles accurately and systematically	right-angled and isosceles triangles and	right-angled or isosceles	Constructs equilateral, right angled or isosceles triangles accurately.



Ability to identify	The learner identifies	The learner identifies	The learner identifies any	The learner identifies
vertices, faces and edges	vertices, faces and edges in	vertices, faces and	two of; vertices, faces or	any one of; vertices or
in cuboids and cubes	cuboids and cubes	edges in cuboids and	edges in cuboids or cubes	faces or edges in
	correctly and	cubes	correctly	cuboids or cubes
	systematically	correctly		correctly
Ability to identify faces	The learner identifies and	The learner identifies	The learner identifies	The learner identifies
and edges of cylinders	edges of cylinders	faces and edges of	faces or edges of	faces or edges of
	correctly and	cylinders correctly	cylinders correctly	cylinders partially
	systematically			correctly.



STRAND 4.0: DATA HANDLING

Strand	Sub-Strand	Specific Learning Outcomes	Suggested Learning Experiences	Suggested Key Inquiry Question(s)
4.0 Data Handling	 4.1 Bar Graphs (10 Lessons) Frequency table Pictographs, Piling and bar graphs Interpreting bar graphs 	By the end of the sub-strand, the learner should be able to; a) draw a frequency table of real-life situation data, b) represent data from real-life situations using pictographs c) represent data from real-life situation through piling, d) represent data from real-life situations using bar graphs, e) interpret information from bar graphs, f) appreciate use of bar graphs in real life.	 The learner is guided to: discuss with peers and collect data on identified topic from immediate environment and organise the data in a frequency table, collect data, discuss and organise it in pictographs, pile similar objects such as match boxes vertically to represent data, discuss and organise data in form of bar graphs, discuss information represented on bar graphs and explain what it represents, use digital devices or other resources to draw bar graphs and other charts to present data. 	How can bar graphs be used in real-life situations?



Creativity and imagination: as learner discusses with others and collects data and organises it using pictographs.

Values:

Integrity: Learner piles similar objects such as match boxes vertically to honestly represent data.

Pertinent and Contemporary Issues (PCIs):

Learner collects data on identified topic from immediate environment to address community issues as part of non-formal education.

Link to other learning areas:

Learner gathers information on any items in the environment that will enhance learning in Science and technology.



Suggested Assessment Rubric

Level	Exceeds Expectations	Meets Expectations	Approaches	Below Expectations
Indicator			Expectations	
Ability to draw a	The learner draws a	The learner draws a	The learner draws a	The learner draws a
frequency table	frequency table accurately	frequency table	frequency table	frequency table with
	with all details	accurately	accurately with most	minimal details
			details	
Ability to represent	The learner represents data	The learner represents	The learner represents	The learner represents
data using	using pictographs, piling	data using pictographs,	data using pictographs,	data using pictographs
pictographs, piling	and bar graphs correctly and	piling and bar graphs	piling andor bar graphs	or piling partially
and bar graphs	accurately	correctly	correctly	correctly
Ability to interpret	The learner interprets	The learner interprets	The learner interprets	The learner interprets
information from	information from bar graphs	information from bar	information from bar	information from bar
bar graphs	correctly and	graphs correctly	graphs with most	graphs with minimal
	comprehensively		details	details



APPENDICES

APPENDIX I: SUGGESTED RESOURCES

Strand	Sub-Strand	Resources
NUMBERS	Whole numbers	Place value apparatus, number charts, number cards, multiplication tables
	Multiplication	Multiplication tables
	Division	Multiplication tables
	Fractions	Equivalent fraction board, circular and rectangular cut-outs, counters
	Decimals	Place value charts, number cards
MEASUREMENT	Length	Metre rule, 1metre ticks, tape measure
	Area	Square cut outs, 1cm squares, 1m squares
	Capacity	Tea spoons, containers of different sizes, water, sand, soil
	Mass	Tea spoons, soil or sand, manual/electronic weighing machine, beam balance
	Time	Analogue and digital clocks, digital watches, stopwatches
	Money	Price list, classroom shop, electronic money tariff charts



GEOMETRY	Lines	Chalkboard ruler, 30cm ruler, straight edges
	Angles	Unit angles, protractors, rulers
	3-D objects	Cubes, cuboids, cylinders, pyramids, spheres, cut-outs of rectangles, circles, and triangles of different sizes
DATA HANDLING	Bar graphs	Bar graph worksheets, data graph worksheets, data samples from different sources
ALGEBRA	Inequalities	Digital inequality worksheets; greater than, less than or equal to, sorting cards.

NOTE

The following ICT devices may be used in the teaching/learning of mathematics at this level; Learner digital devices (LDD), teacher digital devices (TDD), mobile phones, digital clocks, television sets, videos, cameras, projectors, radios, DVD players, CDs, scanners, internet among others.



APPENDIX II: SUGGESTED ASSESSMENT METHODS AND TOOLS

- a) Written tests and quizzes
- b) Rating scales
- c) Projects
- d) Observation schedules
- e) Portfolios
- f) Assessment rubric
- g) Questionnaires



APPENDIX III: CSL GUIDELINES FOR UPPER PRIMARY (GRADE 4-6)

At this level, the goal of the CSL activity is to provide linkages between concepts learnt in the various Learning Activities and the real life experiences. Learners begin to make connections between what they learn and the relevance to their daily life. CSL is hosted in the Social studies learning area. The implementation of the CSL activity is a collaborative effort where the class teacher coordinates and works with other subject teachers to design and implement the integrated CSL activity. Though they are teacher-guided, the learners should progressively be given more autonomy to identify problems and come up with solutions. The safety of the learners should also be taken into account when selecting the CSL activity. The following steps for the integrated CSL activity should be staggered across the school terms:

Steps in carrying out the integrated CSL activity

1) Preparation

- Map out the targeted core competencies, values and specific learning areas skills for the CSL activity
- Identify resources required for the activity (locally available materials)
- Stagger the activities across the term (Set dates and time for the activities)
- Communicate to learners, parents/caregivers/guardians, school administration, teachers and other relevant stakeholders in the school community
- Identify and develop assessment tools



2) Implementation CSL Activity

- Assigning roles to learners.
- Ensure every learner actively participates in the activity
- Observe learners as they carry out the CSL activity and record feedback.
- Use an appropriate assessment tool to assess both the process and the product (Assess learner's work from the beginning to the end product)
- Assess the targeted core competencies, values and subject skills.

3) Reflection on the CSL Activity

Conduct a self-evaluation session with learners on the integrated CSL activity undertaken by discussing the following:

- what went well and why
- what did not go well and why,
- what can be done differently next time
- what they have learnt.

There will be **one** integrated CSL activity that will be conducted **annually.** The thematic areas for the integrated CSL activity will be derived from the broader categories of the PCIs and concepts from the various Learning Areas. Teachers are expected to vary the themes yearly to allow learners to address different PCIs within their contexts. There should be a linkage between the skills from the learning areas and the themes.

The integrated CSL activity will take a Whole School Approach (WSA) where the entire school community is involved (learners, parents/caregivers/guardians, school administration, teachers). Parents/caregivers/guardians are key stakeholders in the planning and execution of the CSL activity. Although the teacher takes the lead role in the planning and integration of the CSL activity, learners will be expected to participate actively in the whole process.



The CSL activity provides an opportunity for the development of core competencies and the nurturing of various values. The teacher is expected to vary the core competencies and values emphasised in the activity yearly.

ASSESSMENT OF THE CSL ACTIVITY

Assessment of the integrated CSL activity will focus on 3 components namely: skills from various learning areas applied in carrying out the activity, and core competencies and values demonstrated. Assessment should focus on both the process and end product of the CSL activity. The teacher will assess learners in groups using various tools such as an observation schedule, checklist or rating scale or any other appropriate tool.