

**TWINKLE JUNIOR SCHOOL
PRIMARY FIVE INTEGRATED SCIENCE SCHEME OF WORK FOR TERM ONE**

THEME	TOPIC
1.SCOENCE IN HUMAN ACTIVITIES	1.KEEPING POULTRY AND BEES
2.MATTER AND ENERGY	2.MEASUREMENT
3.HUMAN HEALTH	3.IMMUNISATION
4.HUMAN BODY	4.THE DIGESTIVE SYSTEM

General learning outcomes

- ✓ When learners go through the topics listed above, they will be able:
- ✓ To know and use basic scientific knowledge and skills in the management of poultry and bees.
- ✓ To know standard units for measuring mass, weight and volume and use correct instruments to measure mass, weight and volume.
- ✓ To develop more knowledge on immunization, appreciate the importance of immunization and actively take part in the immunization activities
- ✓ To acquire knowledge about the organs of the digestive system and what happens to food within the system.
- ✓ Appreciate the importance of the digestive organs of the human body.

W k	P D	T H E M E	T O P I C	COMPETENCES		CONTENT	METHOD	ACTIVIT Y	Life skill/va lue	L/D	REF	RM K
1	1- 6	S C I E N C E I N H U M A N	K E E P I N G P O U L T R Y			<ul style="list-style-type: none"> • Orientation • Revision of holiday packages 						
				LANGUAGE	SUBJECT							
2	1			Names the different types of poultry	Identifies different types of poultry	<u>POULTRY KEEPNG</u> Difference between poultry and poultry keeping. Examples of poultry Reasons why farmers keep poultry	Discussion Demonstration Observation Question and answers	Answering oral and written questions	Critical thinking Effective communication	Live chicken	MK integrated science books Fountain integrated science books Comprehe	

		A C T I V I T I E S A N D O C C U P A T I O N S	A N D B E E S							nsive	
2	2			Labels with correct spelling a diagram showing the external parts of a domestic fowl. Correctly reads words and sentences on poultry	Describes the external parts of domestics fowl	<u>External features of poultry</u> External parts of a cork. Importance of feathers to birds/poultry. Types of features & their parts	Observation Demonstration Question and answers	Care Respons ibility Love	A chart and naming external parts of poultry		

2	3	I O N	Spells, read and pronounces new words correctly eg quill, covert, flight, body, filoplume etc Uses the new vocabulary to construct meaningful sentences about feathers	Names the types of feathers Tells the importance of feathers to both birds and people. Shows the position of different types of feathers on the body of a bird	<u>Feathers</u> Types of feathers Importance of each type of feathers to birds Position of each type of feathers on the body of a bird. Structures of each type of feather Importance of feathers to people.	Discussion Observation Inquiry	Drawing and naming types of feathers Sharing the functions of feathers in groups of fours.	Real feathers A live domestic bird	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5
2	4		Writes the examples of different types of breeds of chicken correctly.	Names the types and examples of breeds of chicken. Discusses the advantages and	<u>Breeds of chicken</u> -Definition of breeds. -Groups of breeds e.g local, exotic,	Discussion Observation Question and answers	Answering oral and written questions	Flash cards showing different	Teachers' noted text book

				Spells, reads and pronounces the names of different breeds correctly	disadvantages of both local and exotic breeds of chicken	etc. -Advantages and disadvantages of different breeds.			breeds of chicken		Fountain integrated Science bk 5 Comprehensive bk 5	
2	5			Reads and writes the new vocabulary correctly e.g broilers, layers etc Uses the new vocabulary to construct meaningful sentences about poultry.	Explains the purpose of keeping each type of poultry. Tells the importance of different products obtained from poultry.	<u>Types of chicken</u> i.e. layers, broilers, dual purpose	Guided discussion Observation Excursion	Coping brief notes about types of poultry	Self-awareness Appreciation Care	Eggs Chicken Flash cards	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5	

2	6		Recites rhymes about farming	Explains the uses of poultry Discusses the importance of feeding poultry well	<u>Feeding of poultry</u> Types of mash. Contents of various mash. Importance of each mash. Feeding & drinking equipment	Discussion Question and answers	Copying brief notice Answering oral and written questions.	Problem Solving concern	Water trough Feeding trough Mash	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5	
3	1		Draws and labels the diagram of the digestive system of a bird.	Describes the digestion of food in birds. Gives the functions of the parts of the digestive system of a bird	Digestion in birds Function of different parts of the system.	Observation Explanation Guided discussion	Answering the given questions	Care and concern Problem solving Effective	A chart showing digestive system of a bird	MK Integrated Science bk 5 Fountain Integrated science bk 5	

								e commu nication		Comprehe nsive bk 5	
3	2			Labels the parts of an egg Reads short notice about formation and development of an egg	Explains how an egg is formed Draws and labels the structure of an egg States the functions of each part of an egg	Reproduction in chicken How birds reproduce Development of an egg Structure of an egg Qualities of a good egg Abnormalities in bird's eggs	Guided discussion Observation Guided discovery	Drawing and labelling the parts of an egg Answering the given questions	Effective comm Sharing Problem solving	Eggs Charts showing parts of an egg A chart showing development of an egg	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5

3	3		<p>Pronounces and reads the new words correctly eg incubation, incubator, natural, artificial, kerosene etc</p> <p>Recites a poem about types of incubation</p>	<p>Describes the types of incubation</p> <p>Uses diagrams to the give differences between types of incubation</p> <p>Gives the advantages and disadvantages of natural and artificial incubation</p>	<p><u>Incubation</u></p> <p>What it is</p> <p>Incubation period of different domestic fowls</p> <p>Types of incubation (natural and artificial)</p> <p>Advantages of natural and artificial incubation</p> <p>Structures of incubators</p>	<p>Observation</p> <p>Question and answer</p> <p>Explanation</p>	<p>Discussing the advantages and disadvantages of types of incubation</p>	<p>Care</p> <p>Confidence</p> <p>Decision making</p> <p>Problem solving</p>	<p>Charts showing types incubation and incubators</p> <p>A phone with internet</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p>	
3	4		<p>Uses local experience and new vocabulary to write meaningful</p>	<p>Defines a brooding and brooding</p>	<p><u>Brooding</u></p> <p>Definition of brooding.</p>	<p>Explanation</p> <p>Observation</p>	<p>Answering oral and written</p>	<p>Care and concern</p>	<p>A chart showing types of</p>	<p>MK Integrated Science bk 5</p>	

				sentences about brooding Reads the brief notes about brooding.	States the types of brooding and brooders Discusses the advantages and disadvantages of both natural and artificial brooding	Types of brooding. Advantages & disadvantages each type of brooding. Structures of different types of brooders.	Class discussion	questions	Problem solving Good decision making	brooders	Fountain integrated Science bk 5 Comprehensive bk 5	
3	5				Explains the importance of proper housing of poultry Names different materials used to construct poultry Houses Discusses the dangers of poor	<u>Housing poultry</u> Importance of proper housing of poultry Different types of poultry houses or coops. Dangers of poor housing of poultry	Guided discussion Explanation Excursion	Answering the given activity about housing poultry	Concern Taking decisions Responsibility Sympathy	Nails Pieces of wood A chart showing coops	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5	

					housing of poultry						
3	6			Tells short story about free range and deep litter systems of keeping poultry	<p>Describes the system of keeping poultry chicken.</p> <p>Explains how to manage a poultry farm.</p> <p>Discusses the materials needed to start free range and deep litter farm.</p>	<p><u>Systems of keeping birds (poultry)</u></p> <p>Free range and deep litter system</p> <p>Requirements for free range and deep litter systems</p> <p>Advantages and disadvantages of free range system and And deep litter system</p>	<p>Discussion</p> <p>Question and answers</p>	<p>Copying brief notice.</p> <p>Answering oral and written questions</p> <p>Explaining how to manage poultry farm</p>	<p>Concern love and caring</p> <p>Effective communication</p>	<p>A chart showing systems of poultry</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p>

4	1			Tells short story about fold and battery systems of keeping poultry	Describes the system of keeping poultry chicken. Explains how to manage a poultry farm. Discusses the materials needed to start free range and deep litter farm.	<u>Systems of keeping poultry</u> Pen/fold system and battery /cage system Requirements for free range and deep litter systems Advantages and disadvantages of pen system battery system	Guided discussion Explanation Excursion	Copying brief notice. Answering oral and written questions Explaining how to manage poultry farm	Concern love and caring Effective communication	A chart showing systems of poultry	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5	
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4	2		<p>Writes and reads sort sentences about poultry vices</p> <p>Tells short stories about common vices among poultry.</p>	<p>Mentions different examples of poultry vices, causes and how to control them</p>	<p><u>Poultry vices</u></p> <p>Definition of poultry vices.</p> <p>Common poultry vices.</p> <p>Signs of poultry vices</p> <p>Ways of controlling poultry vices</p>	<p>Demonstration</p> <p>Question and answers</p> <p>Guided discussion</p>	<p>Answering oral and written questions.</p>	<p>Concern love and caring</p>	<p>Chalkboard illustration</p> <p>A chart showing a debeaked bird</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p>	
4	3		<p>Writes brief notes about diseases on a poultry farm</p> <p>Recite a simple poem about diseases of poultry</p>	<p>Identifies the sick birds on a farm</p> <p>Explains different ways of limiting the spread of diseases on a poultry farm</p>	<p><u>Poultry diseases</u></p> <p>Examples of poultry diseases e.g. coccidiosis, new castle, avian leucosis, black head, fowl typhoid, pneumonia, etc.</p>	<p>Explanation</p> <p>Discussion</p> <p>Questions and answers.</p> <p>Observation</p>	<p>Answering oral and written questions.</p>	<p>Concern love and caring</p> <p>Problem solving</p>	<p>Text books specimens of poultry diseases</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p>	

				Discusses different ways of controlling and preventing diseases on a poultry farm	<p>Causative agents of poultry diseases</p> <p>Signs and symptoms of diseases</p> <p>Prevention and control</p>	Story telling		Responsibility Sympathy		Comprehensive bk 5	
4	4			Writes and reads short sentences about record keeping on poultry farms	<p>Mentions different examples of farm records kept on poultry farms.</p> <p><u>Record keeping</u></p> <p>Types of records</p> <p>Importance of</p>	<p>Demonstration</p> <p>Question and answers</p>	Answering oral and written question	Appreciation Fluency	Chalkboard illustration	MK Integrated Science bk 5	

					Develops a sample of a farm record of any type.	keeping records.	Guided discussion	s.	Taking and making good decisions	A chart showing a sample of a farm record	Fountain integrated Science bk 5 Comprehensive bk 5	
4	5			Tells short stories about bees and their products Spells, pronounces, reads and writes the new words correctly like apiculture, pollination, honey, propolis, sting, cosmetics, crayons etc	Defines the key terms about apiculture Gives a difference between social and solitary insects and bees in particular. States the various examples products got from bees	<u>Apiculture</u> Definition of Apiculture, apiary, colony, etc. Social insects Examples of social insects e.g. bees, termites. Solitary insects Examples of solitary insects. Products of bees	Explanation Discussion Question and answers	Answering oral and written questions. Drawing the structure of a bee	Appreciation Patience Problem solving Self-awareness	Specimen of a bee Teachers' notes	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5	

				Labels the external parts of parts of a bee.	Tells the importance of honey, bee wax and propolis as products of bees	and their uses Products of bees and their uses Importance of bees to people and plants External parts of bees						
4	6			Spells and reads the word correctly like drone, queen, worker, propolis, royal jelly, ovipositor, grub, brood, combs etc.	Describes the life history of bees Discusses different duties of each type of honey bee. Identifies different types of bees using diagrams	<u>Types of bees or casts of honey bees</u> Queen bee Prone bee Worker bee Characteristics Roles of each type of bee	Discussion Explanation Question and answers	Answering oral and written questions. Writing structured notes	Appreciation Patience Awareness Responsibility	A chart showing life cycle of a bee Charts of different types	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehe	

					Food for bees Lifecycle of bees				of bees	nsive bk 5 Personal collection	
5	1			Reads the short stories about swarming Tells short stories about swarming in bees	Defines swarming Tells the reasons for swarming in bees Singles out some particular methods of preventing swarming in bees.	<u>Swarming</u> Meaning of swarming Causes of swarming (reason and factors) Prevention of swarming in bees (ways and activities)	Explanation Discussion Questions and answers. Observation Story telling	Discussing the causes and ways of preventing swarming in bees	Appreciation Patience Problem solving Self-awareness	Flash cards Blackboard illustration	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection

5	2		<p>Recites a simple poem about beehives.</p> <p>Writes correct sentences about bee hives</p> <p>Spells and pronounces new words correctly like brood chamber, queen excluder, entrance etc.</p>	<p>Names the habitat of bees</p> <p>Identifies the different types of beehives</p> <p>Explains the ways of caring for the bees in a hive.</p> <p>Discusses the advantages and disadvantages of each type of beehive.</p>	<p><u>Beehives</u></p> <p>Meaning of beehives</p> <p>Types of bees hives</p> <p>Examples of each types of bee hives</p> <p>Advantages and disadvantages of modern and traditional beehives</p>	<p>Guided class discussion</p> <p>Explanation</p> <p>Observation</p> <p>Story telling</p>	<p>making modern hives in groups of fives</p>	<p>Problem solving</p> <p>Self-awareness</p> <p>Care and concern</p> <p>responsibility</p>	<p>Charts showing types of beehives</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p> <p>Personal collection</p>	
5	3-4		<p>Spells, reads, pronounces and writes the new words correctly like honey chamber, bucket,</p>	<p>Gives a difference between harvesting and extraction of honey</p>	<p><u>Harvesting and extraction of honey</u></p> <p>Meaning of harvesting honey</p>	<p>Observation</p> <p>Guided discussion</p> <p>Question and</p>	<p>Discussing the procedure followed when</p>	<p>Sympathy</p> <p>Responsibility</p>	<p>A phone with internet</p> <p>A chart</p>	<p>MK Integrated Science bk 5</p> <p>Fountain</p>	

			<p>gloves, gumboots, smoker, bee veil etc.</p> <p>Uses the new words to construct meaningful sentences about harvesting and extraction of honey.</p>	<p>Describes the steps followed when harvesting honey</p> <p>Discusses the use of different equipment used in harvesting honey</p>	<p>and extraction of honey</p> <p>Equipment needed during harvesting honey</p> <p>Steps followed when harvesting honey</p> <p>Methods of extraction of honey</p>	<p>answer</p> <p>Story telling</p>	<p>harvesting honey</p>	<p>Self-awareness</p> <p>Making and taking good decisions</p>	<p>showing a person ready to harvest honey</p>	<p>integrated Science bk 5</p> <p>Comprehensive bk 5</p> <p>Personal collection</p>	
5	5		<p>Gives the meaning of new vocabulary like apiary, colony, catching box, catching net, varroosis, mocking birds etc.</p>	<p>States the difference between siting the beehive and stocking the beehive.</p> <p>Identifies the best environment for</p>	<p><u>Care and management of honey bees</u></p> <p>Siting or setting a beehive</p> <p>Factors to consider when siting a</p>	<p>Observation</p> <p>Guided discussion</p> <p>Question and answer</p> <p>Story telling</p>	<p>Answering the given question about the topic</p>	<p>Sympathy</p> <p>Responsibility</p> <p>Self-awareness</p>	<p>A chart showing a catching net</p> <p>Flash cards</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p>	

				Uses the new vocabulary to write meaningful sentences about care and management of bee.	the apiary. Describes different ways of handling bees. Tells the supplementary feeds given to bees. Describes the dangers of enemies of bees.	beehive Stocking a beehive(ways of stocking a beehive) Feeding of bees (supplementary feeds to bees) Enemies of bees (examples and how to control them)	Explanation		Making and taking good decisions		Comprehensive bk 5 Personal collection	
5	6	Topical questions										
6	MID TERM ONE EXAMINATIONS											

7	1	M A T T E R A N D A N E R G Y	M E A S U R E M E N T S	Talks about measuring different objects and uses to correct English words to compare measurement.	States the different measurements of objectives	<u>Measurements</u> Definition of measurements Different measurements of objects in relation to size and weight i.e. long and short object. Heavy and light objects. Instruments used in measuring length i.e. tape measure, meter.	Discussion Explanation Question and answers	Comparing different objects by mass weight and volume.	Logic endurance Care Problem solving	Ruler Beam balance Strings Sticks Ropes Tape measure	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection

7	2			Spells the new words correctly like mass, volume, length etc	Explains the need for standard measures of mass, weight and volume.	<u>Standard unit for measuring length</u> Area and mass of regular objects Units for area Calculating area of rectangle, square, etc	Discussion Question and answers Explanation	Calculating area of squares and rectangles	Appreciation Patience Awareness	Ruler Beam balance Strings Sticks Ropes Tape measure	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection	
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7	3-4			Reads and write Scientific units used for measuring correctly like meters, cubic centimeters etc.	Uses the correct instrument and apparatus to take measurements Describes the process of finding volume of regular and irregular objects	<p><u>Volume of regular and irregular objects</u> Definition of volume Units of volume Volume of regular Objects. Examples of regular objects.</p> <p><u>Irregular objects</u> Definition of irregular objects Examples of irregular objects. Methods used to find volume of irregular objects.</p>	<p>Discussion Question and answers Discussion Question and answers</p>	<p>Calculating volume of regular objects and irregular objects Answering oral and written questions</p>	<p>Appreciation patience Logic Endurance Care</p>	<p>Bricks Boxes Measuring Cylinder Overflow can String Beaker</p>	<p>MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection</p>	
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7	5			Reads and writes short notes about mass and weight.	Explains the need for standard and basic measures of	<u>Mass and weight</u> Definition of mass	Discussion Question and	Measuring mass,	Logic Endura	Beam balance	MK Integrated Science bk

					mass and weight. Demonstrates the ways of measuring mass and weight States the differences between mass and weight.	and weight. Units of mass and weight. Instrument used to measure mass and weight. Difference between mass and weight	answers Observation Explanation Demonstration	weight and volume using standard measures and correct instrument	nce Care	Spring balance Scale balance Set of scales	5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection	
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7	6			Spells the word correctly	Explains the needs for standard measures of mass, weight, and volume	<u>Density</u> Definition of density. Densities of common substance in g/cc	Discussion Question and answers	Using the correct units of measure in different situation	Appreciation Patience Sharing Sympath	Hydro meter	MK Integrated Science bk 5 Fountain integrated Science	
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						Instruments used to measure densities of liquids. Calculations involving density, mass and volume.			y		bk 5 Comprehensive bk 5 Personal collection	
8	1	M A T T E R A N D E N E	M E A S U R E M E N T	Spells the words correctly and uses them to write meaningful sentences	Explains the needs for standard measures of mass, weight, and volume	<u>Floating and sinking</u> Definition of floating and sinking Reasons why objects float and sink Examples of floating and sinking objects.	Discussion Question and answers Application	Finding densities of different objects	Logic Endurance Care	Basin Water String Ruler Cork	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5	

		R G Y								Personal collection	
8	2	H U M A N H E A L T H	I M M U N I S A T I O N	Talks different types of immunity. Spells the relevant work correctly,	Identifies the different types of immunity Sings songs about immunity.	<u>Immunization and immunity</u> Definition of immunization And immunity. Description of immunity and importance of the immunization. Types of immunity; Natural, artificial immunity. Ways of getting natural and artificial	Discussion Explanation	Answering oral and written questions	Care Confidence Sympathy Responsibility	Our environment	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection

					immunity.						
8	3			Reads short notes about immunization	Identifies the different types and examples of vaccines	<u>Vaccines</u> Defines of vaccines. Description of antibodies Types of vaccines e.g. toxoids, killed vaccine, live-attenuated vaccines.	Observation Questions and answers Explanation	Answering oral and written questions	Appreciation Patience Self-awareness Sharing	Model of a vaccine carrier Blackboard illustration	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection
8	4			Recites a poem that sensitizes the community about the immunisable	Describes the Causes, spread signs and symptoms and	<u>Childhood immunisable diseases</u>	Guided class discussion Story telling	Answering oral and written	Self-awareness	Flash cards Blackb	MK Integrated Science bk 5

				diseases.	prevention and control of different immunisable diseases like tuberculosis, measles, poliomyelitis, diphtheria, pertussis, tetanus, hepatitis, haemophilus influenza type b etc.	Causes, signs and symptoms and prevention and control of different immunisable diseases like tuberculosis, measles, poliomyelitis, diphtheria, pertussis, tetanus, hepatitis, haemophilus influenza type b	Explanation	question about immunisable diseases	Problem solving Care Concern Making and taking good decisions	board illustration Charts showing victims of immunisable diseases	Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection	
8	5	H U M A N I S A E	I M M U N I S A	Reads and writes sentences and stories about immunization	Uses their body to show the different sites of immunization for different vaccines. Explains why immunization is	Immunization administration Methods of administration i.e. oral and injection method.	Observation Question And answers	Answering oral and written questions	Appreciation Patience Problem solving	Our environment The live human body	MK Integrated Science bk 5 Fountain integrated Science	

		A L T H	T I O N		done at different schedules and sites.	Immunization sites vaccines. Administered age of immunization Reasons why some vaccines are given at different ages and sites.			Self- awarene ss Confiden ce		bk 5 Compreh ensive bk 5 Personal collection	
8	6	H U M A N H E A L T	I M M U N I S A T I O N	Reads and writes sentences ad stories about immunization. Recites poems about immunization	Explains the roles of individuals, families, communities and the government in the promotion of immunization. Tells how important the child health card is to the parents and health workers	<u>Participation in immunization</u> Roles of an individual, family, community and the government in immunization. The child health card (its content and importance to	Observation Question and answers Explanation Class discussion	Answerin g oral and written question	Apprecia tion Patience	A child health card	MK Integrate d Science bk 5 Fountain integrate d Science bk 5 Compreh ensive bk	

		H				both the parents and health workers)) Government and NGOs that carry out immunization					5 Personal collection	
9	1	H U M A N B O D Y	D I G E S T I V E S Y S T E	Spells, reads and pronounces the new words correctly like digestion, chemical, mechanical, enzyme, acidic, alkaline etc. Uses the new words to construct meaningful sentences about digestion of food	Defines digestive system and digestion. Tells the importance of digestion Describes the meaning of different terms used in digestion. Discusses the types of digestion.	<u>Digestion</u> Definition of digestion. Types of digestion (mechanical and chemical digestion) Enzymes (what they are and their Characteristics)	Discussion Explanation Question and answer Guided discovery	Naming enzymes the work in both acidic and alkaline conditions Defining pH Discussing the	Empathy Logic Fluency Appreciation Self-awareness	Phone with internet (watching a video on U-tube) Blackboard illustration	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal	

			M	in human beings.	Describes the nature of different enzymes.			types of digestion			collection	
9	2			<p>Spells, reads and writes the new vocabulary correctly like mouth, oesophagus, stomach, pancreas, gall bladder, liver, ileum, jejunum, duodenum, colon etc.</p> <p>Reads and interprets short sentences about the alimentary canal.</p>	<p>Names the parts of alimentary canal.</p> <p>Singles out the parts of the digestive system which are not part of the alimentary canal.</p> <p>Identifies the glands of the alimentary canal and their functions</p>	<p><u>The alimentary canal</u></p> <p>Meaning of alimentary canal</p> <p>Parts of the alimentary canal</p> <p>Parts of the digestive system.</p> <p>Glands of the digestive system (liver, pancreas and salivary glands)</p> <p>Structure of the</p>	<p>Observation</p> <p>Demonstration</p> <p>Guided class discussion</p> <p>Guided discovery</p> <p>Explanation</p> <p>Question and answer</p>	<p>Drawing and naming the parts of the human digestive system.</p>	<p>Empathy</p> <p>Logic</p> <p>Fluency</p> <p>Appreciation</p> <p>Self-awareness</p>	<p>A chart showing the digestive system of a human being</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p> <p>Personal collection</p>	

						human digestive system.						
9	3	H U M A N	D I G E S T I V E S Y S T E M	Reads words, sentences and short stories about the digestive system.	Describes the functions of the different parts of the digestive system. Describes the movement of food through the alimentary canal.	<u>Food in the mouth and the gullet (oesophagus).</u> Uses of the teeth during digestion. How saliva is useful in the mouth. Enzymes found in the saliva. Food acted upon in the mouth. Peristalsis	Observation Question and answers Explanation Demonstration	Discussing both chemical and mechanical digestion in the mouth. Drawing and labelling a diagram showing peristalsis.	Problem solving Decision making Appreciation Self-awareness Problem solving Care Concern	A chart showing digestive system Video player	MK Integrated Science bk 5 Fountain integrated Science bk 5 Comprehensive bk 5 Personal collection	

9	4		<p>Reads words, sentences and stories about the digestive system.</p> <p>Uses the new words like chyme, pyloric sphincter, curvature etc to write short notes about digestion of food in the stomach.</p>	<p>Describes the digestion of food in the stomach.</p> <p>Draws and labels the parts the human stomach.</p>	<p><u>Digestion of food in the stomach</u></p> <p>Secretions in the stomach (gastric juice, hydrochloric acid and mucus) and their functions.</p> <p>Action of the stomach walls on food (churning food into little chymes)</p> <p>Enzymes found gastric juice</p> <p>Food acted upon by enzymes in the stomach.</p>	<p>Discussion</p> <p>Explanation</p> <p>Demonstration</p> <p>Observation</p>	<p>Answering oral and written questions</p>	<p>Empathy</p> <p>Logic</p> <p>Concern</p> <p>Appreciation</p> <p>Care</p>	<p>A chart showing digestive system</p> <p>Video player</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p> <p>Personal collection</p>	
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9	5	HUMAN BIOLOGY	DIGESTIVE SYSTEM	<p>Reads words, sentences and stories about the digestive system.</p> <p>Interprets the written text about digestion in the small intestine.</p>	<p>Describes the function of the different parts of the digestive system.</p> <p>Names the parts that make the small intestines.</p> <p>Explains the chemical digestion in the small intestines.</p> <p>Discusses the adaptations of the ileum to its function (absorption of food)</p>	<p><u>Digestion of the food in the small intestine</u></p> <p>Parts of the small intestine (duodenum, jejunum and ileum)</p> <p>Digestive glands situated at the duodenum (liver and pancreas) and their digestive functions)</p> <p>Chemical digestion in the jejunum and the ileum.</p> <p>Adaptations of the ileum to absorption of food.</p>	<p>Observation</p> <p>Question and answers</p> <p>Explanation</p> <p>Observation</p>	<p>Answering oral and written questions</p>	<p>Problem solving</p> <p>Decision making</p> <p>Appreciation</p> <p>Self-awareness</p> <p>Critical thinking</p> <p>Creative thinking</p>	<p>A chart showing digestive system</p> <p>A chart showing the duodenum with the liver and pancreas.</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p> <p>Personal collection</p>	
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9	6	HUMAN BODY	DIGESTIVE SYSTEM	<p>Reads words, sentences and stories about the digestive system.</p> <p>Interprets the written text about digestion in the large intestine.</p>	<p>Describes what happens to undigested food in the large intestine.</p>	<p><u>The large intestine</u></p> <p>Parts that make up the large intestine (appendix, ascending colon, descending colon, transverse colon, sigmoid colon, rectum and the anus).</p> <p>The summary of digestion of food in human beings.</p>	<p>Discussion</p> <p>Explanation</p>	<p>Answering oral and written question</p>	<p>Problem solving</p> <p>Decision making</p> <p>Appreciation</p> <p>Self-awareness</p> <p>Critical thinking</p> <p>Creative thinking</p>	<p>A chart showing digestive system</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p> <p>Personal collection</p>	
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10	1		<p>Draws and label is the different parts of the digestive system</p> <p>Reads simple texts about ways of caring for our digestive system.</p>	<p>Describes the function of the different parts of the digestive system</p> <p>Names different diseases and disorders of the digestive system.</p> <p>Explains different ways of caring for our digestive system</p>	<p><u>Diseases and disorders of the digestive system</u></p> <p>Disorders of the digestion system.</p> <p>Diseases of the digestive system.</p> <p>Examples of disease, causes, signs and symptoms.</p> <p>Ways of preventing diseases of the system.</p>	<p>Discussion</p> <p>Explanation</p> <p>Guided discovery</p>	<p>Answering oral and written questions</p>	<p>Problem solving</p> <p>Decision making</p> <p>Appreciation</p> <p>Self-awareness</p> <p>Critical thinking</p> <p>Creative thinking</p>	<p>A chart showing digestive system</p>	<p>MK Integrated Science bk 5</p> <p>Fountain integrated Science bk 5</p> <p>Comprehensive bk 5</p> <p>Personal collection</p>	
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