7 tgo Rolatou / Hammon 2x pooranon				
Subject	Year Group	Date	Class	
Science – Working Scientifically	1			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives	Teacher to write pupils' initials
I can ask simple questions about the world around me I can, with support, observe closely and describe what I see I can, with support, perform simple tests using familiar, everyday equipment I can use sketches to record what happened	Emerging
I can ask simple questions linked to the science work we are doing I can observe closely and describe what I see I can perform simple tests, using familiar, everyday equipment I can gather and record information to help answer questions (including using photographs and drawings)	Expected
I can start to suggest simple answers to questions based on my own experience I can relate my observations to the wider world I can identify the equipment that I need to perform simple tests I can start to suggest my own methods for gathering information to answer a question	Exceeding

Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

7.50 Kolaida / Kilaininini = Zpoolailoilo					
Subject	Year Group	Date	Class		
Science – Life Processes & Living Things	1				

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	·	Teacher to write pupils' initials	
	Key Learning Objectives	reacher to write publis initials	4
I can lai Animals inc I can na I can ex I can de I can ide Seasonal a	ame some common plants and trees pel the roots, leaf, stem, petal, branch, trunk and fruit on pictures of plants or trees cluding humans: Imme some common animals including fish, amphibians, reptiles, birds and mammals plain the difference between carnivores and herbivores escribe and label the main external body parts of common animals entify, name, draw and label the basic parts of the human body and say which part is associated with each sense change: Escribe the season we're in		Emerging
Plants: I can ide Animals ine I can ide Seasonal c	entify and name a variety of common wild and garden plants, including deciduous and evergreen trees entify and describe the basic structure of a variety of common flowering plants, including trees cluding humans: entify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals entify and name a variety of common animals that are carnivores, herbivores and omnivores escribe and compare the structure of a variety of common animals entify, name, draw and label finer body parts, e.g. wrist, chin, ankle, waist, shoulder, hips, etc.		Expected
• I can sta • I can gr • I can gr • I can ex • I can id • I can id • Seasonal d	escribe the characteristics of common plants and tress cart to explain the basic function of the roots, stem and flowers in common plants cluding humans: oup common animals including fish, amphibians, reptiles, birds and mammals according to their characteristics plain, in simple terms, the function and importance of the main external body parts of common animals entify, name and label some of the major bones, e.g. the skull, rib cage, spine, etc. change: plain how seasonal changes affect plants and animals		Exceeding

Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

7.50 Kolaiou / Kilainii 12/poolaiioii					
Subject	Year Group	Date	Class		
Science – Materials & their Properties	1				

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	Key Learning Objectives	Teacher to write pupils' initials	
o circo co	Materials: I can find objects made from a given material I can name some everyday materials I can describe the appearance and texture of some everyday materials I can compare and group together a variety of everyday materials on the basis of their appearance and texture		Emerging
7000	 Materials: I can distinguish between an object and the material from which it is made I can identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock I can describe the simple physical properties of a variety of everyday materials I can compare and group together a variety of everyday materials on the basis of their simple physical properties 		Expected
:: :: ::	Materials: I can explain the difference between naturally occurring man-made materials I can identify and name a selection of common metals and plastics I can link the simple physical properties of a variety of everyday materials to their uses I can compare and group together a variety of everyday materials according to criteria that I have devised myself		Exceeding

	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

Age Related Attainment Experiencing					
Subject	Year Group	Date	Class		
Science – Working Scientifically	2				

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives	Teacher to write pupils' initials	
I can ask simple questions and suggest a possible way to answer them I can observe carefully, and make direct comparisons I can identify what I need to measure in a test I can identify similarities and differences I can, with support, link direct observations to answer questions I can use tables accurately to record my findings		Emerging
I can ask simple questions and recognise that they can be answered in different ways I can observe closely, using given measuring equipment I can perform simple tests without support I can identify and classify I can use my observations and ideas to suggest answers to questions I can gather and record accurate data to help in answering questions (incl. numerical data, where appropriate)		Expected
I can consider the most suitable/ practical approach when answering simple questions I can select appropriate equipment to take careful measurements I can recognise when a test is unfair I can classify and recognise patterns I can draw simple conclusions which are supported by my findings I can record accurate data in a variety of ways (incl. numerical data, where appropriate)		Exceeding

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	o complete us of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

7 tg - Kotatou / Humilion 2xp - Galleria				
Subject	Year Group	Date	Class	
Science – Life Processes & Living Things	2			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives	Teacher to write pupils' initials
Plants: I know that all plants start life as a seed/bulb I can recognise some of the conditions required for plants to grow and stay healthy Animals including humans: I can match common animals to their young; i.e. puppy → dog I can describe the basic needs of humans for survival (water, food, warmth, shelter) I know that lack of exercise and overeating fatty and sugary foods can result in weight gain and poor health Living things and their habitats: I can sort items according to whether they are living, dead or have never been alive I can match common animals to their habitats; i.e. penguin → polar region I can identify and name common plants and animals found in the local environment	Emerging
Plants: I can observe and describe how seeds and bulbs grow into mature plants I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy Animals including humans: I can notice that animals, including humans, have offspring which grow into adults I can find out about and describe the basic needs of animals, including humans, for survival (water, food and air) I can describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene Living things and their habitats: I can explore and compare the differences between things that are living, dead, and things that have never been alive I can identify that most living things live in habitats to which they are suited and describe how different habitats provide for the boot different kinds of animals and plants, and how they depend on each other I can describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify a different sources of food	
Plants: I can recall the main stages in the life cycle of common plants I can make and test predictions about how plant health and growth will be affected by changes to their water, light and temper Animals including humans: I can recall the main stages in the life cycle of animals, including some more complex cases; i.e. frogs, butterflies, chickens, etc. I can describe additional needs of humans and animals to enhance their life (comfort, company, stimulation) I can describe both the immediate and long term effects of exercise, including breathing, heart rate and muscle development Living things and their habitats: I can make accurate generalisations about groups of animals/objects I understand how current changes to the environment (natural and man-made) are impacting upon animal and plant populatio I can explain simple ways in which animals are suited to their habitat I can start to construct simple food chains	Exceeding

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Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

7.30 Kolaiou / Kilainii 12.000 lainoii				
Subject	Year Group	Date	Class	
Science – Materials & their Properties	2			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	Key Learning Objectives	Teacher to write pupils' initials	
	Materials: I can suggest at least one accurate reason why a particular material has been used to make a common object I can distinguish between objects whose shape can be easily changed and those whose shape is more permanent		Emerging
	 Materials: I can identify and compare the suitability of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses (using scientific vocabulary i.e. transparent, opaque, durable, rigid, permeable, etc.) I can find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching 		Expected
: :	Materials: I can devise and carry out my own tests to assess the suitability of materials for a given purpose I can explain, in basic terms, how heating and cooling can be use to change some objects / materials		Exceeding

	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

Total of Age Notation 2/100 tall of the same and the same				
Subject	Year Group	Date	Class	
Science – Working Scientifically	3			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives Key Learning Objectives Teacher to write pupils' initial to subject Leader to complete GREY SHADED AREAS and nand to subject Leader to write pupils' initial to subject Leader to complete GREY SHADED AREAS and nand to subject Leader to complete GREY SHADED AREAS and nand to subject Leader to write pupils' initial to subject Leader to complete GREY SHADED AREAS and nand to subject Leader to complete GREY SHADED AREAS and nand to subject Leader to complete GREY SHADED AREAS and nand to subject Leader to complete GREY SHADED AREAS and nand to subject Leader to complete GREY SHADED AREAS and nand to subject Leader to write pupils' initial to subject Leader to write pupils in the subject Leader to write pupil				
I can ask relevant scientific questions I can, with guidance, set up simple practical comparative tests I can take careful measurements, including length, weight and volume I can gather, record and present data in a variety of ways to help answer questions I can record findings using drawings, labelled diagrams, keys, bar charts, and tables I can use results to draw simple conclusions and make general statements I can use real world examples to answer questions or to support my findings		Emerging		
 I can ask relevant scientific questions and suggest a scientific way of answering them I can, with guidance, set up simple practical enquiries, comparative and fair tests I can make careful observations and take accurate measurements using standard units I can gather, record, classify and present data in a variety of ways to help answer questions I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables I can use results to draw simple conclusions and make predictions for new values I can use straightforward scientific evidence to answer questions or to support my findings 	TAPOCIO A	Expected		
I can distinguish between scientific and non-scientific questions I am starting to identify and explain some of the possible variables when setting up practical enquiries I understand that results are not always reliable I can comment upon how effectively findings are presented I am starting to share my findings with others using scientific language I can use results to draw simple conclusions, make predictions for new values and start to raise new questions I am starting to understand the importance of scientific evidence in developing and refuting ideas I can use different sources of scientific evidence to answer questions or to support my findings		Exceeding		

	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

Subject	Year Group	Date	Class
Science – Life Processes & Living Things	3		

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives	Teacher to write pupils' initials	
Plants: I can explain the function of roots and flowers in common flowering plants I am starting to understand that plants need more than just water, light and a suitable temperature to grow and stay healthy I know that water is taken up from the soil by plant roots I can identify and label some of the main parts of a flower (e.g. stigma, style, ovary, anther, filament or sepal) Animals including humans: I can explain the importance of the main food groups, incl. carbohydrates, fruit and vegetables, proteins, dairy, sugars and fats I understand that humans and other animals have skeletons for support, and can describe common joints (hinge, ball and socket) Rocks: I can group together different kinds of rocks on the basis of their appearance I know that fossils are evidence of plants and creatures that lived a long time ago I know that plants and animals become part of the soil when they decompose		Emerging
Plants: I can identify and describe the functions of different parts of flowering plants, incl. roots, stem/trunk, leaves and flowers I can explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant I can investigate the way in which water is transported within plants I can explore the part that flowers play in the life cycle of plants, including pollination, seed formation and seed dispersal Animals including humans: I can identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat I can identify that humans and some other animals have skeletons and muscles for support, protection and movement Rocks: I can compare and group together different kinds of rocks on the basis of their appearance and simple physical properties I can describe, in simple terms, how fossils are formed when things that have lived are trapped within rock I can recognise that soils are made from rocks and organic matter		Expected
Plants: I can identify and describe the functions of different parts of flowering plants, and apply this knowledge to unfamiliar plants I can give examples of plants that do not conform to common requirements for growth (e.g. desert, water and air plants) I can explain the process of transpiration in plants using appropriate scientific vocabulary I can explain reproduction in plants using appropriate scientific vocabulary Animals including humans: I can identify food sources for a variety of different animals, understanding that they do not need the same balance as humans I can describe how some animals have exoskeletons or shells for support and protection Rocks: I can identify, name and group different rocks, incl. slate, granite, marble, flint, sandstone, limestone and quartz I understand that the position of fossils within layers of rock can date how long ago the plants or creatures lived I can name and describe the three main soil types (sandy, clay and loam)		Exceeding

Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	Exceeding
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

Telenico Medicina de Maria de				
Subject	Year Group	Date	Class	
Science – Physical Processes	3			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	Key Learning Objectives	Teacher to write pupils' initials	
	Forces & magnets: I can use simple observations about how things move on different surfaces I know that magnets can use an invisible force to attract certain objects I can carry out investigations and sort materials according to whether they are magnetic or not I know that magnets have two poles Light: I know that we need light in order to see things I can use a reflective surface like a mirror to 'bounce' light onto another surface I know that I must not stare directly at the sun as it can damage my eyes I can experiment with light sources to create shadows on flat surfaces		Emerging
	Forces & magnets: I can compare how things move on different surfaces I can notice that some forces need contact between two objects, but magnetic forces can act at a distance I can observe how magnets attract or repel each other and attract some materials and not others I can compare and group materials on the basis of whether they are magnetic, and identify some magnetic materials I can describe magnets as having two poles I can predict whether two magnets will attract or repel each other, depending on which poles are facing I can recognise that we need light in order to see things and that dark is the absence of light I can notice that light is reflected from surfaces I can recognise that light from the sun can be dangerous and that there are ways to protect their eyes I can recognise that shadows are formed when the light from a light source is blocked by a solid object I can find patterns in the way that the size of shadows change		Expected
:	Forces & magnets: I can explain how different surfaces cause friction and affect the movement of objects along them I can accurately describe magnetic forces, using the vocabulary of attraction and repulsion I can make accurate predictions and general statements about which materials are magnetic I can start to explain magnetic fields around the poles of a magnet Light: I can explain why we need light to see things I can sort materials and objects according to whether they reflect or absorb light I can predict the shape and direction of shadows by considering the relative positions of light sources and objects I understand and can predict how the size of shadows may change according to the relative positions of light sources and objects		Exceeding

Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

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Subject	Year Group	Date	Class	
Science – Working Scientifically	4			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives	Teacher to write pupils' initials
I can ask relevant questions and use a given method of scientific enquiries to answer them I am starting to identify the most important variables when setting up practical enquiries I can make systematic observations and take accurate measurements using simple equipment I can report on findings, including oral and written explanations I am starting to use results to draw simple conclusions I can use results to raise questions I can link my enquiries to simple scientific ideas and processes	Emerging
 I can ask relevant questions and use different types of scientific enquiries to answer them I can set up simple practical enquiries, comparative and fair tests independently I can make systematic and careful observations and take accurate measurements using standard units, and use a range of equipment, including thermometers and data loggers I can report on findings, including oral and written explanations, displays or presentations of results and conclusions I can use results to suggest improvements to enquiries and to raise questions I can identify differences, similarities or changes related to simple scientific ideas and processes 	Expected
I can start to use other sources of information to support the findings from my practical enquiries I am starting to control variables when setting up practical enquiries I can recognise when observations or measurements may be erroneous I can use ICT to help my report on findings I am starting to use questions resulting from my findings as a starting point for further enquiries I can identify differences, similarities or changes and explain how they are linked to simple scientific ideas and processes	Exceeding

Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

Tigo Kolaida / Kilaini				
Subject	Year Group	Date	Class	
Science – Life Processes & Living Things	4			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	Key Learning Objectives	Teacher to write pupils' initials	
Emeraina	Animals including humans I can name some of the basic parts of the digestive system in humans I can name the different types of teeth in humans I can construct simple food chains Living things & their habitats I can recognise similarities between living things I can use classification keys to identify and name a variety of living things I can recognise that humans sometimes pose a danger to living things (e.g. hunting, deforestation, etc.)		Emerging
Expected	Animals including humans I can describe the simple functions of the basic parts of the digestive system in humans I can identify the different types of teeth in humans and their simple functions I can construct and interpret a variety of food chains, identifying producers, predators and prey Living things & their habitats I can recognise that living things can be grouped in a variety of ways I can explore and use classification keys to group, identify and name living things in the local and wider environment I can recognise that environments can change and that this can sometimes pose dangers to living things		Expected
Exceeding	Animals including humans I can describe the process of digestion in humans, in the correct sequence I can identify the different types of teeth and their simple functions in humans and other animals I can predict what will happen when an element within a food chain increases/decreases Living things & their habitats I can group living things in more sophisticated ways (not relying simply on appearance) I can suggest and use my own classification keys to identify a variety of living things I can suggest ways in which environments and living things can be protected		Exceeding

	complete s of this table	<u>Emerging</u>	<u>Expected</u>	Exceeding
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

<u> </u>				
Subject	Year Group	Date	Class	
Science – Physical Processes	4			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives	Teacher to write pupils' initials	
States of matter I can observe that some materials change state when they are heated or cooled I can describe everyday examples of evaporation and condensation (e.g. puddles drying up and condensation on a bathroom mirror) Sound I can identify the source of different sounds I can describe sounds in terms of their pitch and/or volume I can talk about my own experiences of hearing sounds (but cannot yet make generalisations) Electricity I can identify common appliances that run on electricity I can construct a simple series electrical circuit to light a bulb I can fix a broken series circuit to light a bulb by a process of trial and error I can test materials in a series circuit to find out if they conduct electricity		Emerging
States of matter I can compare and group materials together, according to whether they are solids, liquids or gases I can observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) I can identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature Sound I can identify how sounds are made, associating some of them with something vibrating I can recognise that vibrations from sounds travel through a medium to the ear I can find patterns between the pitch of a sound and features of the object that produced it I can recognise that sounds get fainter as the distance from the sound source increases Electricity I can construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers I can identify whether or not a lamp will light in a series circuit, based on whether or not the lamp is part of a complete loop with a battery I can recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit I can recognise some common conductors and insulators, and associate metals with being good conductors		Expected
States of matter I can describe changes in state (i.e. changing from liquid to a gas) in terms of the behaviour of the particles I can confidently describe the water cycle, and predict rates of evaporation Sound I can describe how sounds are received and processed by the ear (using the vocabulary of sound waves) I can accurately predict how to alter the pitch and volume of a sound I can accurately suggest how to minimise sounds and 'soundproof' spaces by using absorbent materials Electricity I can experiment with adding cells into a circuit to see how it affects lamp brightness or buzzer volume I can select and use conductive materials to construct simple switches I can suggest everyday uses for conductors and insulators		Exceeding

	complete s of this table	<u>Emerging</u>	<u>Expected</u>	Exceeding
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

Subject	Year Group	Date	Class
	Teal Gloup	Dule	Cluss
Science – Working Scientifically	5		

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives	Teacher to write pupils' initials	
I can, with guidance, plan different types of enquiries to answer questions, including recognising and controlling variables I understand that taking repeated measurements improves the reliability of results I can, with guidance, record data and results using scientific diagrams and labels, classification keys, tables, bar and line graphs I can use test results to decide when it is appropriate to do further testing I can report and present findings, including conclusions and causal relationships in oral and written forms		Emerging
I can work as part of a team to plan enquiries to answer questions, including recognising and controlling variables I can take measurements, using a range of equipment, with precision, taking repeat readings when appropriate I can record data and results using scientific diagrams and labels, classification keys, tables, bar and line graphs I can use test results to make predictions to set up further comparative and fair tests I can report and present findings, including conclusions, causal relationships and degree of trust, in oral and written forms		Expected
I can work independently to plan enquiries to answer questions, including recognising and controlling variables I can make sets of observations or measurements following given ranges and intervals I can, with guidance, record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs I can amend my original conclusions in light of subsequent testing I can use causal relationships to generate hypotheses		Exceeding

Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	Exceeding
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

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Subject	Year Group	Date	Class	
Science – Life Processes & Living Things	5			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	Teacher to complete GREY SHADED AREAS and hand to Subject Leader		
	Key Learning Objectives	Teacher to write pupils' initials	
Emerging	Animals including humans: I can identify and describe key physical changes that occur during the life of humans Living things and their habitats: I can describe the life cycles of a mammal, an amphibian, an insect and a bird I can describe the life process of reproduction in animals		Emerging
Expected	Living things and their habitats:		Expected
Exceeding	 Animals including humans: I understand that humans start to deteriorate as they reach old age, describing partial loss of vision, hearing, strength, etc. I can understand more specific changes, for example, to the brain, eyes and joints; arthritis, dementia etc. Living things and their habitats: I can describe the differences in life cycles of mammals, amphibians, insects and birds; giving multiple examples of each I can describe the process of reproduction in plants and animals, and understand that the period of germination/gestation varies a great deal between species 		Exceeding

Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

7 tg - Kolaita / Kilailia - Zepotianoni				
Subject	Year Group	Date	Class	
Science – Materials & their Properties	5			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	Key Learning Objectives	Teacher to write pupils' initials	
2000	 Materials: I can compare and group materials on the basis of properties, including hardness, transparency and response to magnets I know that some materials will dissolve to form a solution I can use sieving or filtering to separate solids and liquids I can give reasons for the particular uses of everyday materials I can give examples of some changes of state that are reversible, e.g. freezing and melting water, as well as using particle knowledge to explain the process. I can explain that some changes result in the formation of new materials 		Emerging
F	 Materials: I can compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets I know that some materials will dissolve to form a solution, and describe how to recover a substance from a solution I can use knowledge of solids, liquids and gases to separate mixtures, including through filtering, sieving and evaporating I can give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials I can demonstrate that dissolving, mixing and changes of state are reversible changes and I can depict these with particle representations. I can explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda 		Expected
Exceeding	Materials: I can compare and group materials, explaining the criteria that I have chosen and using multiple criteria I can describe how to recover a substance from a solution using evaporation or filtration I can, when presented with a mixture, suggest the most appropriate method for separation I can use fair testing to demonstrate and prove the suitability of everyday materials for a given purpose I can distinguish between, and give examples of, reversible and irreversible changes I can explain how science, technology and industry use changes in state to create new and useful materials		Exceeding

	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

rigo kolaliou / kilaliou / kilaliou i zapoolaliolio				
Subject	Year Group	Date	Class	
Science – Physical Processes	5			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	Key Learning Objectives	Teacher to write pupils' initials	
	Forces & Magnets: I know that gravity is a force that stops things floating away from the Earth I know that when objects move, opposing forces slow them down I know that levers can make it easier to lift heavy weights Earth & Space: I know that the sun is at the centre of our solar system, and that other planets revolve around it I know that the moon rotates around the Earth I know that the sun only appears to move across the sky because the Earth is rotating		Emerging
-	Forces & Magnets: I can explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object I can identify the effects of air resistance, water resistance and friction, that act between moving surfaces I can recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect Earth & Space: I can describe the movement of the Earth and other planets, relative to the Sun in the solar system I can describe the movement of the Moon relative to the Earth I can describe the Sun, Earth and Moon as approximately spherical bodies I can use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky		Expected
:	Forces & Magnets: I can explain how gravity affects objects on Earth, and how astronauts experience weightlessness at zero gravity I can explain how engineers try to counter air and water resistance and friction when designing cars, planes, boats etc. I can explain how levers, pulleys and gears reduce the force required to move (or speed up) objects Earth & Space: I can describe the position and significance of our solar system within the universe (in very simple terms) I can describe the phases of the moon as seen from Earth (using the vocabulary of waxing and waning) I can describe the planets in our solar system, talking about their size, surface and how long it takes them to orbit the sun I can use the idea of the Earth's rotation to confidently explain international time zones I can understand how the tides are connected to the gravitational pull of the moon		Exceeding

Teacher to shaded area	complete s of this table	<u>Emerging</u>	<u>Expected</u>	Exceeding
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

7 tg - Korarou / Krammon - 2xp - Oranono			
Subject	Year Group	Date	Class
Science – Working Scientifically	6		

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

Key Learning Objectives	Teacher to write pupils' initials	
I can work as part of a group to plan more sophisticated scientific enquiries to answer questions, including recognising and controlling variables I understand the importance of working in a systematic way when taking repeated measurements I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs I can identify scientific evidence that has been used to support my ideas or refute arguments.		Emerging
 I can plan more sophisticated scientific enquiries to answer questions, including recognising and controlling variables I can justify my choices of data collection method and number of observations and measurements I can choose the most appropriate method to record data and results of increasing complexity I can identify scientific evidence that has been used to support or refute ideas or arguments 		Expected
I can carry out sophisticated scientific enquiries, controlling all variables and recognising the impact of the different variables upon results I can identify limitations and inconsistencies within and between sets of data I can decide upon the most appropriate format to present scientific data, e.g. using line graphs for continuous variables I can describe scientific evidence that supports or refutes particular ideas or arguments, including those in development		Exceeding

	complete s of this table	<u>Emerging</u>	<u>Expected</u>	Exceeding
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

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Subject	Year Group	Date	Class	
Science – Life Processes & Living Things	6			

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

_	Key Learning Objectives	Teacher to write pupils' initials	
Emerging	Animals including humans: I can explain how the heart pumps blood around the body I know that lack of a healthy diet and exercise, and the abuse of drugs can cause harm to my body I know that my body gets nutrients from the food I eat iving things & their habitats: I can describe how living things are classified into broad groups according to observable characteristics I can identify similarities between animals (or plants) that have been grouped together by someone else ivolution & inheritance: I recognise that fossils provide information about things that inhabited the Earth millions of years ago I recognise that living things produce offspring, which have obvious similarities to their parents (i.e. number of legs, etc.)		Emerging
Expected	Lan identify features that make certain animals suited to their environment Animals including humans: I can identify and name the parts of the circulatory system, and describe the functions of the heart, vessels and blood I can recognise the impact of diet, exercise, drugs and lifestyle on the way my bod functions I can describe the ways in which nutrients and water are transported within animals, including humans iving things & their habitats: I can describe how living things are classified into broad groups according to observable characteristics and similarities and differences, including micro-organisms, plants and animals I can give reasons for classifying plants and animals based on specific characteristics ivolution & inheritance: I can recognise that living things have changed over time and that fossils provide information about things that inhabited the Earth millions of years ago I can recognise that living things produce offspring, but normally offspring vary and are not identical to their parents I can identify how animals and plants are adapted to suit their environment and that adaptation may lead to evolution I can understand Darwin's theories and explain their origin		Expected
Exceeding	Animals including humans: I can explain how the circulatory system works, and understand how it can become compromised by bad health I know the requirements for good health, and can explain how the body can recover from neglect or substance abuse I understand the some illnesses and conditions can actively inhibit the body's ability to take up nutrients iving things & their habitats: I can use scientific vocab, when classifying animals and plants, e.g. vertebrates, invertebrates, kingdoms, species, genus I am precise when classifying plants and animals, looking beyond obvious physical attributes ivolution & inheritance: I can make links between modern animals and prehistoric creatures (e.g. how some dinosaurs evolved into birds etc.) I can explain how offspring take on characteristics from (and will have similarities to) their parents, whilst remaining unique I can apply the theory of evolution to different species of animals and plants	boys names in different colours (and put	Exceeding

	nplete shaded this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			

Subject	Year Group	Date	Class
Science – Physical Processes	6		

Teacher to complete GREY SHADED AREAS and hand to Subject Leader

	Key Learning Objectives	Teacher to write pupils' initials	
	Light: I can use torches to explore the path that light travels in I know that we see objects when light from them reaches our eyes I can explain that shadows are caused when an object blocks the path of the light Electricity: I can explain how increasing/decreasing the number of cells will affect other components (e.g. bulbs and buzzers) within a simple circuit I can explain what has 'gone wrong' when a circuit featuring one additional component (bulb, buzzer, etc.) fails to work I can represent circuits that I have built using simple sketches and name symbols within a circuit		Emerging
	Light: I can recognise that light appears to travel in straight lines I can use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them Electricity: I can associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit I can compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches I can use recognised symbols when representing a simple circuit in a diagram		Expected
:	Light: I know that light travels in straight lines, but that its direction of travel can be changed (refracted) using reflective surfaces. I can describe how light is processed by lenses within the eye to produce images that the brain can interpret. I can monitor and explain how the changing position of the sun alters the shadows that it creates during the day Electricity: I can make accurate predictions about what will happen when I change the number/voltage of cells in a circuit. I can suggest and make alterations to improve the function of circuits featuring multiple components. I can follow circuit diagrams to build given circuits. I can experiment with both series and parallel circuits.		Exceeding

	complete s of this table	<u>Emerging</u>	<u>Expected</u>	<u>Exceeding</u>
Overall	No. of Chn			
Boys	No. of Chn			
Girls	No. of Chn			