Year 5 NC - pupils should be taught to:	How we do this in Year 5	Year 5 Vocabulary	Year 6 NC - pupils should be taught to:	How we do this in Year 6	Year 6 Vocabulary
Describe the life process of reproduction in some plants and animals  How working scientifically can be met	(Children have learnt about the parts of a flower and the processes of pollination and fertilisation in Year 3)  Explain sexual and asexual reproduction (sexual reproduction in more detail).  Recap what they learnt in Year 3 about the parts of a flower and their function - look for children who can identify and explain the function of the different parts of a flower.  Recap pollination - look for children who can describe the different ways plants reproduce through the processes of pollination and fertilisation.	Sexual, asexual, reproduction, gamete, cell, pollen, ovule, fusion, fertilisation, pollination.	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals  How working scientifically  sort and group  give reasons for classification	Recap classification and keys. Discuss that scientists who classify living things by comparing are called taxonomists. Children act as taxonomists to classify animals for a new zoo, by sorting and grouping the animals - look for children who can think of ways to sort and group the animals based on their similarities and differences. A Single Method? Children discuss how they classified the animals with the members of their group. Groups discuss whether and why taxonomists may use a single, standard method of classification.	Classify, sort, group, similarities, differences, compare.
	Highlight the differences between asexual and sexual reproduction in plants.  Describe some familiar examples of plants that reproduce asexually. Identify advantages/disadvantages of each type of reproduction. Look	Asexual, sexual, reproduction, cuttings, roots.	observable characteristics and based on similarities and differences	Discuss why it is important to have a standard system of classification. Ask children to discuss possible problems caused by not following a standard system.  Describe Carl Linnaeus and his work on the classification system.	Carl Linnaeus, Linnaean, classification, standard, domain, kingdom, phylum, class, order, family, genus, species.

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for children who can			Explain the Linnaean	
identify the advantages			system of classification	
and disadvantages of each			and give examples for	
type of reproduction.			each level.	
Making New Plants - take			Show the children how a	
cuttings from a geranium			species can be classified	
plant. This is an artificial			at each level of the	
method of asexual			standard system. Explain	
reproduction. Any cuttings			how the genus and the	
that develop roots over			species gives a living thing	
the next few weeks can			its scientific name.	
be planted into pots of				
compost. These new	7			
plants will be genetically		<ul> <li>identify the</li> </ul>	Describe and explain	Microorganism, fungus,
identical to the parent		characteristics	microorganisms and	bacteria, virus,
plant. Children explain		characteristics	describe the examples of	microscopic, mould.
this method of asexual			microorganisms e.g.	meroscopie, modia.
reproduction - look for			plankton, mould, yeast	
children who are able to			etc.	
explain their			Describe the helpful and	
understanding of asexual			harmful uses and effects	
reproduction in plants,			of microorganisms	
and how this makes new		344	What Makes Mould Grow?	7
plants.			Mouldy bread	
plants.			investigation.	
			investigation.	
	A		Explain their conclusions	Microorganism, cell,
			and describe how they	eukaryote, nucleus, DNA,
			could use the results of	
				fungus, virus, bacteria.
			their investigation to keep bread mould-free for	
			longer.	
			Explain how	
			Microorganisms are	
			classified and explain the	
			main difference in the	
			structure of the cells of	
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				different microorganisms,	
			V /	in particular fungi and	
				bacteria - identify which	
				is a fungus cell and which	
				is a bacterium cell.	
				Use different colours of	
				play dough to sculpt their	
				own single-celled	
				Microorganism in a petri	
				dish - look for children	
				who are able to use the	
				characteristics of the	
				different cells to create	
				their own microorganism,	
				and who can describe its	
				uses and effects.	
Describe the differences	(Children have learnt about the	Sexual, reproduction,	Give reasons for	Recap different groups of	Classify, organism,
in the life cycles of a	stages of the human life cycle in	gamete, male, female,	classifying plants and	vertebrates and	species, vertebrates,
mammal, an amphibian,	lesson 1 of the Y5 Animals	sperm, ovum, fertilise,	animals based on specific	invertebrates.	invertebrates, mammals,
an insect and a bird	Including Humans unit)	pregnancy, gestation,	characteristics.	Match the characteristics	birds, amphibians,
an insect and a bird	Discuss animals that are	montreme, marsupial,	characteristics.	with the correct groups of	reptiles, fish, insects,
	mammals. Use a rabbit's	young.		animals.	arachnids, molluscs,
How working scientifically	life cycle to order	young.		Describe the discovery of	crustaceans, annelids,
can be met	correctly.		How working scientifically	the platypus. Point out	plants, flowering, non-
describe and	Describe sexual		can be met	the defining	flowering.
	reproduction in mammals		can be met	characteristics and	Howering.
compare	Discuss monotreme -		<ul> <li>classify a creature</li> </ul>	explain why the platypus	
i dontifi, cimiloniti co	mammals such as the	A	based on its	is classified as a mammal	
<ul> <li>identify similarities and differences</li> </ul>	duck-billed platypus that		characteristics	and not a reptile or bird.	
and differences	do not give birth to their		Characteristics	and not a reptite of bird.	i.
	young, but lay eggs			Create a field guide to the	
	instead. Children watch		<ul> <li>group and classify</li> </ul>	organisms found in the	
	this BBC clip showing the		<ul> <li>give reasons</li> </ul>	local habitat:	
	moment of conception			-identify living things in	
	and the growth of a baby.			the habitat around their	
	https://www.bbc.co.uk/			school	
	bitesize/clips/zpmqxnb *This clip should be			-keep a list of the plants and animals they find	
	This clip should be			and animals they find	
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checked beforehand to			-classify the organisms	
ensure it is suitable for		V	they found	
the children in your class*			Look for children who can	
Describing Reproduction -			classify living things	
look for children who		No.	according to their	
understand the process of			characteristics and give	
sexual reproduction, and			reasons for their	
can order and describe			classification choices	
the stages.				
Describe the three				
different groups of				
mammals (placentals,				
marsupials and				
monotremes) and discuss				
examples of animals in				
each group.				T.
Children describe the				
stages of the life cycle of				
one of the different				
mammals e.g. a platypus				
(a monotreme), a				
kangaroo (a marsupial) or				
a rabbit (a placental).				V.)
Look for children who can				
order and describe the life				
cycles.	Family tree, chimpanzee,			
Comparing Life Cycles -	Jane Goodall, life cycle,			
consider the similarities	endangered, extinct.			
and differences between				
the different mammals.				
Introduce Jane Goodall				
and explore Jane's work				
with chimpanzees in				
Tanzania.				
Explain the fact that				
chimpanzees are an endangered species, and				
the threats they face in				
the tilleats tiley race iii			_	
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the wild.	
Briefly describe the work	
of the Jane Goodall	
Institute, and the way it	
works to protect	
chimpanzees in the wild.	
Children work in groups to	
create an advert to ask for	
donations to the Institute	
	Metamorphosis,
Explain metamorphosis.	amphibian, insect,
Talk about animals they	transform, larvae, pupa,
know that undergo	nymph, egg.
metamorphosis.	
Amphibians and Insects -	
explore and describe the	
stages of the different lif	
cycles. Look for children	
who can identify	
similarities and	
differences between the	
life cycles, spotting	
common features and	
between insects and	
amphibians.	
ampinolans.	
	Egg, yolk, albumen,
Explain the role of eggs in	
a bird's life cycle.	amphibian, insect, plant,
Children discuss parts of	life cycle, reproduce.
an egg, and crack open a	
egg to see if they can	
identify these parts.	
Identify these parts.	
function of the parts of a	
egg.	
Life Cycle of a Bird -	

