



# Examples of Work Melissa Living things and their habitats - Year 5









### Focus of assessment (National Curriculum statements)

- Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.
- Describe the life process of reproduction in some plants and animals.

### Description of activity

The pupils were given the key vocabulary for the unit and asked to write definitions for the words that they already knew.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
Oral evidence  Teacher observations	life cycle: life cycle is when something is growing.  mature adult: Is when anything is fully grow.  fledgling:  egg: when something we birth to anything.  metamorphosis: transforming to something  live young: living young?  nymph:  Larrae:	This shows that Melissa is already aware of some of the key vocabulary.  Working scientifically
	incomplete metamorphosis: not fully transform.	



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The pupils were given some images of a variety of animals and asked to generate questions about their life cycles.

EVIDENCE OF LEARNING		Assessment
Oral evidence	Examples of work	Knowledge
	How long does this animal live?  How long does this animal live?  What is the gestation period of a cat?  Which animal lays the more?  Which animal has the more lives?	Melissa's questions show that she knows that some animals lay eggs and others do not. She also knows that animals live for different amounts of time She shows an awareness of gestation.
Teacher observations		Working scientifically
	Which animal stay inside the mother before gestation?  Why does a jellytish live so long?  Does an ant lays eggs or live young?  Where does the snake lays their eggs?	Melissa asks questions linked to the topic.

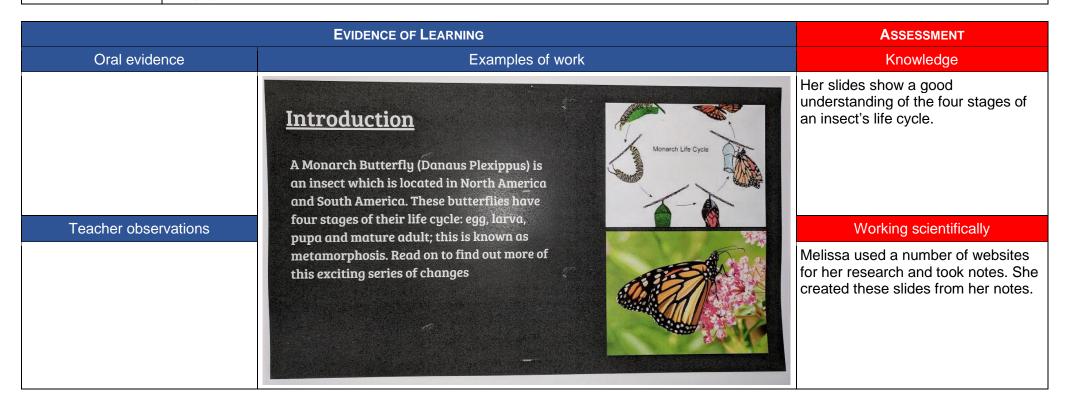


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### Description of activity

The pupils each researched the life cycle of a butterfly of their choice.



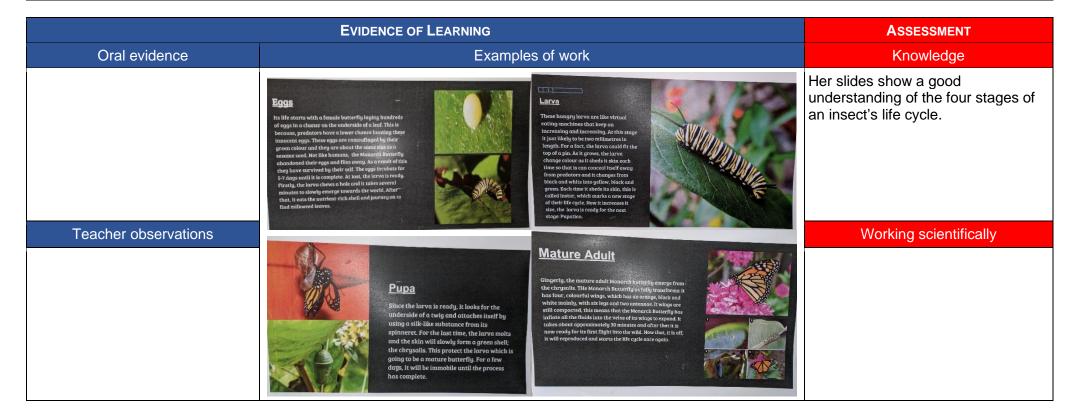


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### Description of activity

The class had some caterpillars in the classroom that they observed over a number of weeks. When the butterflies emerged, they were released into the playground.

	EVIDENCE OF LEARNING		Assessment
Oral evidence	Examples	of work	Knowledge
Teacher observations	Mellisa Week one  The larvae are fully black and they Icm long. These larvae are segment so they could twist around.  Week two  The larvae has increase his site up to 8 cm and it seperate into 8  Segment It change colour to black and white The larvae shed its skin, which we evidence	My Caterpillar Changes into a Butterfly Observational Diary  coterpillar (larva)  written by Mellisa  Week 3  The larvae has to itsale into a chargealts.	Working scientifically  Melissa makes close observations over a period of time and records these using words, drawings and scientific diagrams.



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### Description of activity

The class visited a local pond during the summer term to pond dip. They used a key to identify the animals which included the dragonfly nymph. They then saw two dragonflies mating and a female laying eggs. The whole life cycle in one visit!

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
"Those dragonflies are mating. It is a male and female, and the male is giving the female sperm to fertilise the eggs. (This visit occurred after the pupils had learnt about the process of reproduction in humans.)  "The nymph is the young dragonfly. It must metamorphosise like the caterpillar."	© Ghislain Simard / Biosphoto	Melissa makes links to her knowledge about the life cycles of other animals and compares them.
Teacher observations	(Illustrative images from www.arkive.org)	Working scientifically



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### Description of activity

The pupils were asked to choose two birds from the <u>Arkive website</u> and to find out about their life cycles. The pupils were then asked to create a PowerPoint to compare the two life cycles.

	EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of w	vork	Knowledge
Teacher observations	Life cycle of an Ostrich.  The breeding season and strategy of the ostrich van After mating, the main female up to 11 creamy white lay around 2 to 6  The young ostriches fledge at 4 to 5 months are full incubation is performed only by the male and the m 42 and 46 days.  Life cycle of a Mallard  The hollow nest, lined with grasses, feathers and leaves.  Between 10 to 12 pale green, blue or creamy white eggs are produced and are incubated for 28 to 29 days by the female.  The downy chicks are led to the water by the female shortly after hatching and are cared for by the female for up to eight weeks	e eggs, while the other females y grown about 18 months.	Working scientifically  Melissa located the relevant information and made notes.

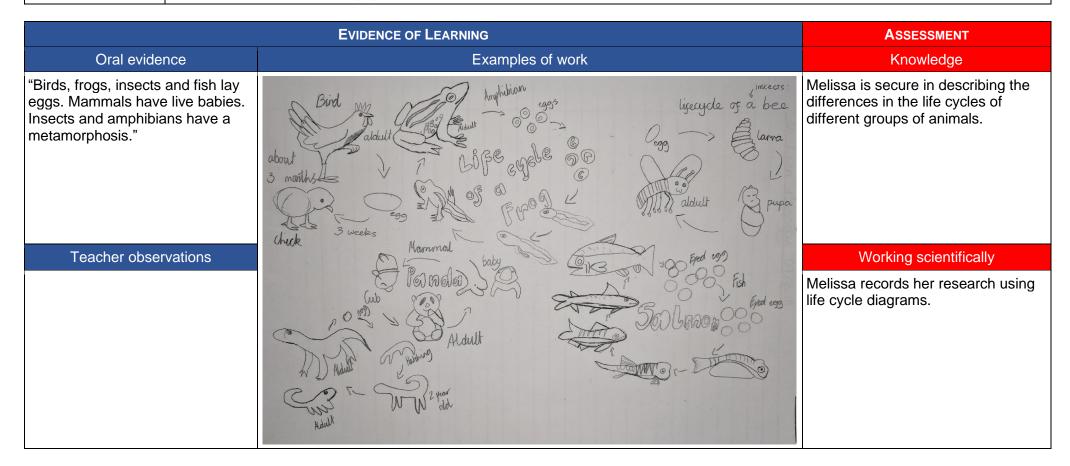


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### Description of activity

During a reading lesson, the pupils found out about other life cycles and recorded them as diagrams.





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### Description of activity

The pupils were given the same key vocabulary as they were at the start of the topic and asked to write definitions for the words that they now knew.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
Teacher observations	Life cycle: A sories of changes from something and turning into a mature about.  fledgling: Is a young bird  eag A Mature Aldult lays the eggs which an currenal inwhates inside.  metamorprasis: A series of changes.  lire young: Which a mammal born-not in are egg:  larvae: A young insect.  mecomplete metamorphosis: When an animal do not have a pupa stage.	Melissa's knowledge now extends to fledgling and larvae and a better understanding of incomplete metamorphosis.  Working scientifically
	mature adult: An animal which is fully grown.  changeaus: The green shell that protect around the pupa	



### Focus of assessment (National Curriculum statements)

Describe the life process of reproduction in some plants and animals.

### Description of activity

Before the class learnt about asexual reproduction, the teacher wanted to find out what they had remembered from Year 3 about the life cycle of flowering plants. The pupils were given the key vocabulary which they discussed in pairs before writing about what they knew.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
Teacher observations  It is not essential for pupils to use the terms 'anther' and 'stigma'.	The life uple of a plant.  Pollination  This is when the pollen produced on the anther of at a flowers moves to the stigma. The are two ways (main) that flowers are pollinated: insects and wind insect pollinated pollinated flower are different insects at are really attractive with sweet smelling rectar and their brights, wonderful, wowered pollins. When their land on the flower, they sticked to its body and the pollen growns are sticky and spirity. Some flowers are green or a dult ordered and have no lovely scent, so there is no need to attract insect. The antiers are located outside the flowers and produced lost of pollen so the wind blow could carry it and it goes to feathery stigmas.	The sentence about "green or dull" coloured flowers is slightly unclear but shows an understanding that wind pollinated flowers are different to insect pollinated flowers.  Working scientifically



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EVIDENCE OF LEARNING		Assessment
Oral evidence	Examples of work	Knowledge
Teacher observations	For the seed to grow, they have to be spread away from other plant and for away from their parents plants. There is a few ways for seeds in the paint to be transported.  I from one place to another. Animals help their seeds to go other places by eating them up and undiopsted the seeds out. Winds adapt quite fast and easy by blowing the seeds from the plants. Some plants are able to spread their sels by exploding. The pods will burst open and the seed with be spread.  Seed germination  A seed can germinate, if the soil is healthy and will slowly grow roots that helps the plant: have nutrients and water. Afterwards it will develop until it becomes an mature aldult.	This writing shows a good understanding of the life cycle of flowering plants.  Working scientifically



### Focus of assessment (National Curriculum statements)

• Describe the life process of reproduction in some plants and animals.

### Description of activity

While the teacher consolidated the Year 3 learning with some pupils, the rest of the pupils created PowerPoints which they later shared with the less secure pupils.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
Teacher observations	Reproductive parts of a flowering plant  By Mellisa  Petals  Most petals has brightly colours. This is because, their job are mainly to attract insects, such as bees, and butterflies. Somes of the flowers have scent and some don't. As they visit a flower, the insect pick up the pollen and they will fly off. Afterwards it will visit another flower. That is how most flowers are pollinated. However, some flowers don't have bright colours and lovely scent, that means insects don't get any attention. So, they pollinated by the wind and gets carry away somewhere else to grow.	Working scientifically



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EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
Teacher observations	Sepals are special types of leaves that form a ring around the petals. They protect the flower when it is still a little plant. After the flower is open the sepals is still could be seen underneath the petals. Most of the sepals are green or brown, but some plants they are the same colour as the petals.  Nectaries  The nectaries are the part of a flower that make nectar. Insects like nectar that give them energy.	Knowledge  Working scientifically
	Also bees make honey with nectar too. The nectar are usually in the centre. That means insects has to go deep down to reach the nectar. While they are doing that the pollen from the anther stick to their body and they will carry it to another flower.	



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EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
	Carpels  The carpel is the female part of the flower. This is where the seeds are made. There are three parts of the carpel: the stigma, the style, and the ovary. The stigma is covered in a sticky substance. Its has to "catch" the grains of pollen. The style holds up the stigma and the ovary contains the ovules. When the flower pollinated the pollen sticks to the stigma and travels down to the style and ovary. After that it becomes a seed. This is called fertilization.	Melissa's knowledge of sexual reproduction goes beyond the requirements of the Key Stage 2 curriculum.
Teacher observations	Stamens  The stamens are the male parts of the flower. This make the pollen. Pollen is yellow powdery thing that makes a flower reproduced.	Working scientifically



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### Description of activity

Outside, the pupils looked for flowers and made careful observations of them.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
Teacher observations	Garnathan  They have bright adour so they can attract insects and they some have sent some don't insects and they some have sent some don't insects and they some have sent some don't insects a sepals.  Trouble observe the male parts: the petals, sepals.  When I look inside I could set the female parts: (arpel:  Granium  The Garanum has a bright adour which pink and it pand of has a smett scent. The Geranum has some stamens inside the flater which is corper by the petals. On the stamens are yellow polity when I cut the favor in half; could see the female part; the carpel.	Working scientifically  Melissa presents her observations clearly in a mix of text and labelled diagrams.



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Describe the life process of reproduction in some plants and animals.

### Description of activity

The class had a spider plant in their class which they noticed had 'babies' The teacher used this as an opportunity to teach about asexual reproduction. The teacher then asked the pupils to compare this to plants they had previously grown.

	EVIDENCE OF LEARNING	ASSESSMENT
Oral evidence	Examples of work	Knowledge
"The strawberries that we grew also had runners. These are a bit like the baby plants on the spider plant. It is also a bit like when we	Baby spider	Melissa describes asexual reproduction as producing identical offspring to the parent.
grew potatoes. We planted one and then more grew underground."		Melissa identifies other plants that also reproduce asexually.
Teacher observations	A spider plant reproduced asexually and the baby plant is identical with the motherpool. The Spider plant reproduced when it is winter.	Working scientifically
	When the plant get streysed, it will shoot out the baby plant. Somehow soon, the baby will dropped from the plant to the soit and it starts reproducing.	
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# Overall summary

## Secure

Melissa describes the differences between the life cycles of different groups of animals. She shows an understanding of the process of sexual reproduction of animals and plants and has an awareness that plants can also reproduce asexually, resulting in identical offspring.