



# Examples of Work Max Animals, including humans - Year 3









#### Focus of assessment (National Curriculum statements)

- Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets).
   (Y1)
- Notice that animals, including humans, have offspring which grow into adults. (Y2)

#### Description of activity

The pupils were shown images of a snail, worm and mouse and asked to discuss which they felt was the odd one out.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
"The mouse is the only one with legs. The snail has a shell. The mouse has eyes. Can a snail see? I don't think a worm can because they live underground in the dark."	worm snail mouse	Max talks about similarities and differences between the animals and also identifies two things that the animals have in common with humans.
Teacher observations	A nignals including?  All of them have a brain)  All of them have a brain	Working scientifically



#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils were given time to dig up bones and then encouraged to try to match them to the human skeleton and then use the worksheet to name the bones.

#### Oral evidence

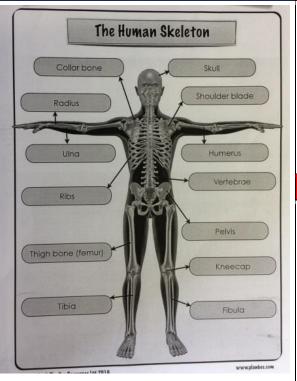
# "I'm not sure if this bone is an arm or a leg bone. It could be a humerus or a femur. They are quite the same in shape."

#### Teacher observations



**EVIDENCE OF LEARNING** 

#### Examples of work



#### **ASSESSMENT**

#### Knowledge

Max is beginning to learn the names of some of the bones in the human body.

#### Working scientifically

Max matches the 'found' bones to those on the human skeleton by looking at the shape and uses the sheet to name them.



#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils were given three questions to discuss in small groups.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
1. "Quite droopy and we would probably live in the sea. On the land, you need to stand up but, in the water, it keeps you up. We would just be able to spin around if we just had muscles. You can do handstands in the water because it keeps you up so it's easier."	1. What would it be like if you had no skeleton?	Max understands that the skeleton and muscles help some animals, including humans, to move and also give them support. He does not talk about their role in protecting organs.
2. "No, it would just be as floppy as muscle. With no skeleton, we would just be about a lump of muscles and then we would have to wriggle about!"	2. Do you think a fabric skeleton would work?	
3. "Muscles connect to bones and then the bones somehow help the muscles to move well, jellyfish can move so I'm not sure about how that works?"  Teacher observations	3. What do you know about muscles and how they work?	Working scientifically

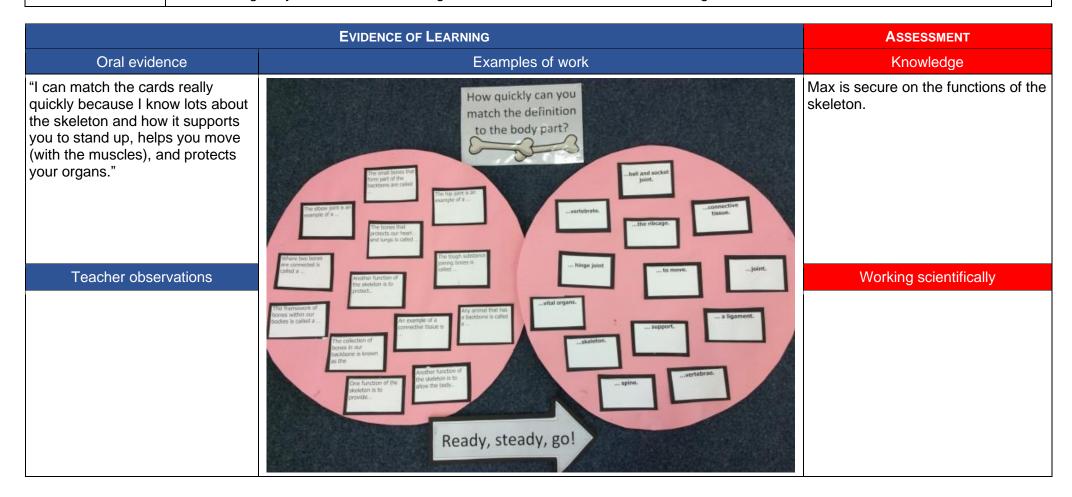


#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The class regularly used a set of matching cards to consolidate their understanding.





#### Focus of assessment (National Curriculum statements)

Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils were asked to sort the bones that they found during the archaeological dig in different ways.

#### EVIDENCE OF LEARNING ASSESSMENT Oral evidence Examples of work Knowledge "We sorted the bones that protect and bones that don't. The skull protects the brain, but babies' are disconnected. That's why you have to be so careful until they are about 6 months. The rib cage protects the heart and the lungs. I think this bone protects the blood that goes through vour neck. There is also bones that don't move and bones that move like your finger. Working scientifically Teacher observations Max selects different ways to sort Teacher: "Can you explain why you can bend your fingers like that?" the bones. Max: "Well, they are joined because there are more than one solid bone in your finger. Like there are four in your finger." Teacher: "What makes you think there are four?" Max: "Well, you can feel them... [Max feels and squeezes his finger.] Actually, there are three."



Year	3	Topic	Animals, including humans
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#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils worked in pairs. They were given two minutes to prepare their argument from one of the following two perspectives.

- We are better off because we have a skeleton.
- We are worse off because we have a skeleton.

	ASSESSMENT	
Oral evidence	Examples of work	Knowledge
	Max: "I think we're better off having a skeleton because then we can have a structure that helps you to be able to stand up and to reach things in tall shelves."  Eliza: "I don't think you need to reach the shelves. It would be much better if you could slide under doors and floors."	Max talks about the three functions of the skeleton.
Teacher observations	Max: "I much prefer having a skeleton because it protects my organs."  Eliza: "Yes, well if you don't have any bones in your body, you won't have any bones to break."	Working scientifically
	Max: "Yeh, but I broke a rib. It's much better than breaking an organ I much prefer having a skeleton and then I can stand upright and walk around and do lots of things you can't do."	
	Eliza: "You don't need to stand up"  Max: "I think you do otherwise you would be slouching around. Running is much faster. I'd be able to work with my structure. I would be able to hold pencils."	



#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils were shown photos of animal skeletons and asked to try and name them. They were then given pictures of these skeletons and ask to sort them in different ways. They then swapped tables and tried to work out how another group had sorted.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
Max: "Neck or no neck-mm. I'm not sure about the snake?"  Eliza: "Well, I think that is muscle not a skeleton."  Max: "No. I'm sure that is a skeleton. But let's put it in the middle as we're not sure"  When viewing another groups sorting  Max: "That's a fish. These all go in the water. Giraffe doesn't, porcupine doesn't. Yes, that's it!"  Teacher observations		Working scientifically  Max identifies different ways to sort the skeletons.



#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils were shown two pictures and, in pairs, they discussed the similarities and differences.

#### **EVIDENCE OF LEARNING ASSESSMENT** Oral evidence Examples of work Knowledge Max compares the two skeletons Image 1 "Only this skeleton's got wings. It's and names some bones. leg joints go backwards. It's got a beak. This has two legs and feet." Image 2 "Only this skeleton has four legs. The leg joints go forwards. He has hooves." "They both have bones and joints. They do both have skulls. They both have rib cages. They both have spines. The bones are inside their body. They have eye sockets on the side of their heads." "It is a duck because that leg Image 1 Image 2 bends backwards." Teacher observations Working scientifically Max makes careful observations of the two skeletons in order to make comparisons.



#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils were asked to compare four skeletons.

EVIDENCE OF LEARNING		ASSESSMENT	
Oral evidence	Examples of work	Knowledge	
"Well, the elephant and the dinosaur they have big skeletons to keep them up and keep them walking around. The frog goes on land and sometimes his legs can bend up and help him swim. They are in a good position for being on land and in water. The dinosaur is very large and it has a long tail to keep its balance."  Teacher observations	I got a small tail  I got a small tail  I got a huge stull  I to got a huge stull  I to got a huge silvadge.  I to got a huge silvadge.  I to got a trangiur head  I to got a small sp vie.	Max talks about the differences between skeletons and how they support the animal and help it to move.  Working scientifically	

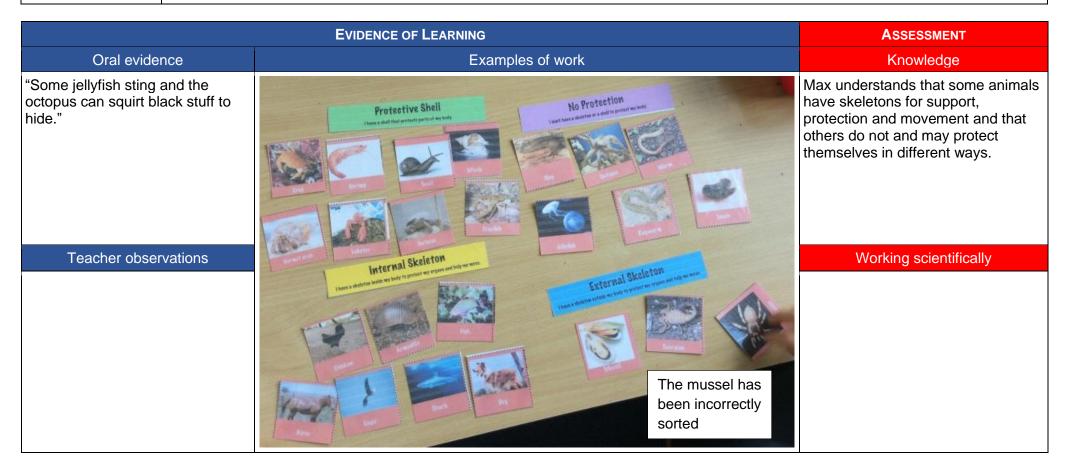


#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils were asked to compare four skeletons. To prompt the children to think about how other animals may protect themselves if they do not have a skeleton, they were then asked to sort them according to given headings.





#### Focus of assessment (National Curriculum statements)

• Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils explored the effect of different types of activity on their heart rate. This is not part of the Year 3 curriculum (Year 5 content).

	EVIDENCE OF LEARNING	ASSESSMENT
Oral evidence	Examples of work	Knowledge
Oral evidence  Teacher observations	Examples of work  Exercise and my Body  Walt: Find out what effect using our muscles can have on our bodies?  Heartbeat Heart rate BPM Notes  Before 2 7 10 8 I was calm and named and resting up  Warming up 1 2 0 My heart is starting to keet the same as a exercise so was happen and resting to the same as a exercise so was happen and resting to the same as a exercise so was happen and resting to the same as a exercise so was happen and resting to the same as a exercise so was happen and resting to the same as a exercise so was happen and resting to the same as a exercise so was happen and resting to the same as a contract of the same as	Working scientifically  Max measures and records his pulse rate and uses this to write simple
	We found out that when our muscles work hard  The hat beat is becoming stronger and paster. I am very hat and very sweety and my breathing is not normal.	comparative statements.

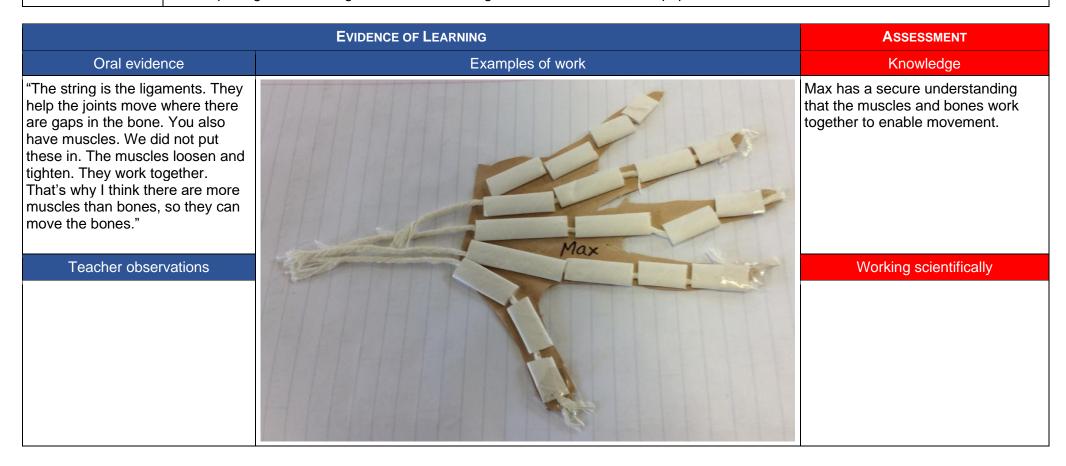


#### Focus of assessment (National Curriculum statements)

Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

After exploring how their fingers move and looking at the class skeleton, the pupils made a model of the bones in their hand.





#### Focus of assessment (National Curriculum statements)

Identify that humans and some other animals have skeletons and muscles for support, protection and movement.

#### Description of activity

The pupils were shown the same images of a snail, worm and mouse, as at the start of the learning, and asked to discuss which they felt was the odd one out.

EVIDENCE OF LEARNING			Assessment
Oral evidence		Examples of work	Knowledge
"I would probably say the mouse now because it has a backbone and the others don't.  "Actually, it could be all of them because: a worm has no protection; a snail has a shell protection outside; and the mouse has a backbone."	worm		Max now refers to the skeleton of the mouse and the shell of the snail giving protection.
Teacher observations	snail		Working scientifically
	mouse		

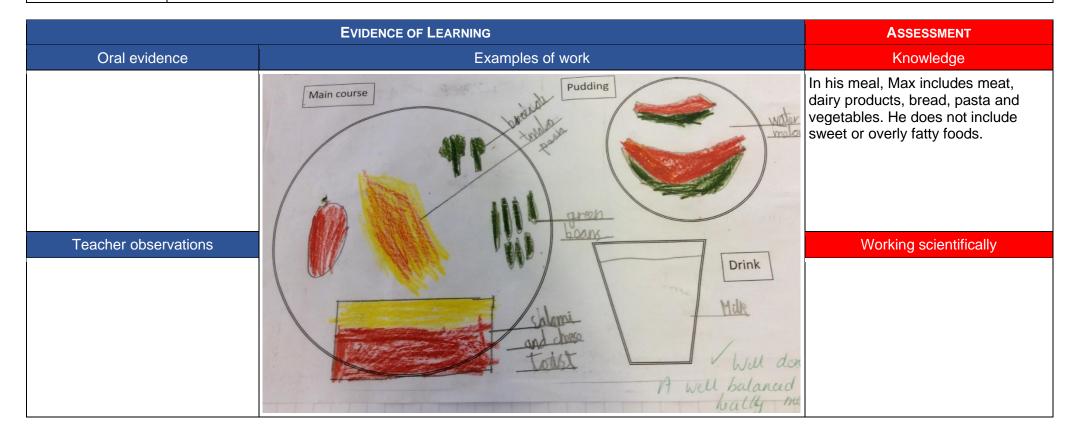


#### Focus of assessment (National Curriculum statements)

Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.

#### Description of activity

To recap on prior learning in Year 2, the pupils were asked to draw a balanced meal.





#### Focus of assessment (National Curriculum statements)

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.

#### Description of activity

The pupils were asked to discuss which food item they thought was the odd one out. The pupils then looked at the nutrient information on packaging.

#### **EVIDENCE OF LEARNING ASSESSMENT** Oral evidence Examples of work Knowledge "The sausage roll is not very Max is becoming familiar with the healthy. There is no salad with it. nutrients contained in different types It is just meat and pastry. of food. "Quaker Oats so Simple has these nutrients: 3.3 fat 2.0 saturated fat 8.9 sugar 0.20 salt. "I don't think it's all that healthy because it's got a lot of sugar in it." Teacher observations Working scientifically Max reports orally on his findings from his research.

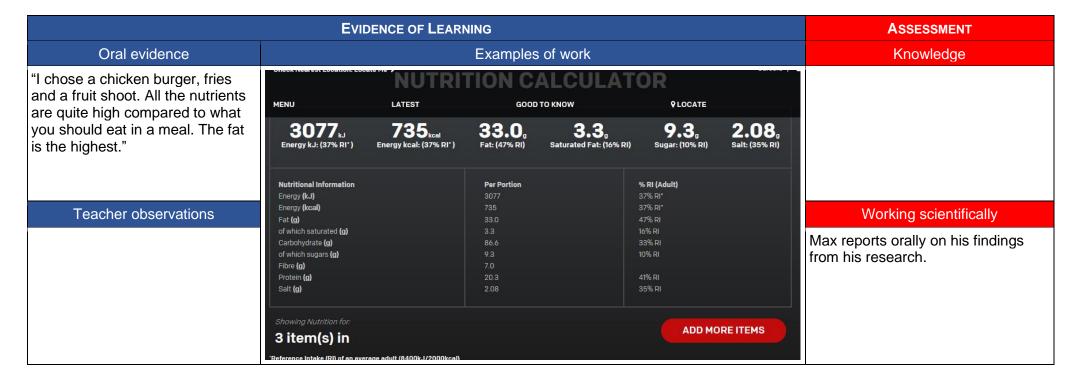


#### Focus of assessment (National Curriculum statements)

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.

#### Description of activity

Using the McDonald's nutrition counter, the pupils were asked to choose a meal that they thought an adult might select.



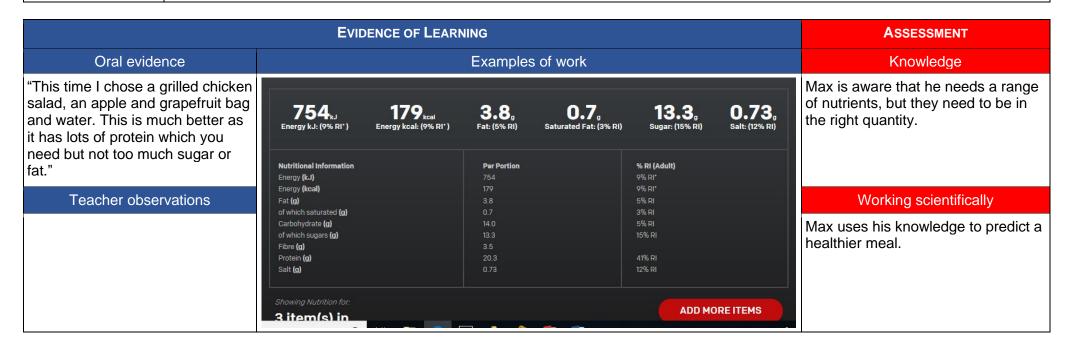


#### Focus of assessment (National Curriculum statements)

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.

#### Description of activity

The pupils were then asked to try and find a healthier alternative.





#### Focus of assessment (National Curriculum statements)

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.

#### Description of activity

As part of their learning in D&T, the pupils made sandwiches.

EVIDENCE OF LEARNING		ASSESSMENT
Oral evidence	Examples of work	Knowledge
Max: "My sandwich has bread to give you carbohydrates. Tuna to give you protein and cucumber to give you vitamins and water."	The M	Max talks confidently about the different nutrients and the types of food that contain them.
Teacher: "What else can you tell me about nutrients?"		
Max: "Protein is like meat, fish, eggs and other non-dairy protein. Carbohydrates are like bread and muffins. Fats are not good for you. You get vitamins from fruit and vegetables, but I also have tablets. If you look at the		
packages, it says Vitamin C helps ight illness. Oranges give you a pot of Vitamin C. I used to like eating the fizzy orange tablet."		
Teacher observations	SCHO!	Working scientifically

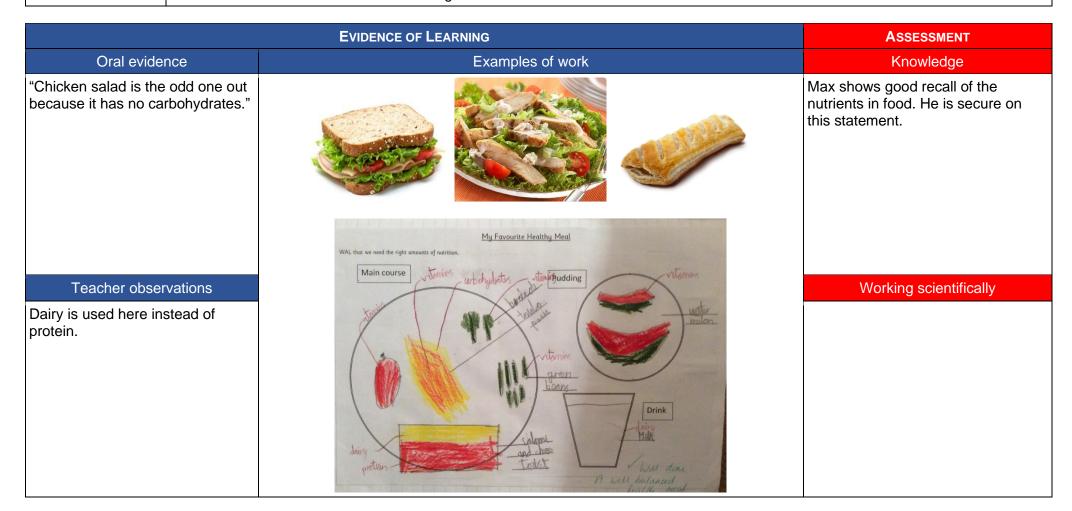


#### Focus of assessment (National Curriculum statements)

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.

#### Description of activity

The pupils were asked to discuss the same three images they discussed earlier in the learning. They were asked to annotate their balanced meal from the start of the learning to show what nutrients it contained.





## Overall summary

### Secure

Max engages in a range of activities that help him to learn the names of some bones in the skeleton. He understands the three functions of the skeleton and talks about these in a range of different contexts.

He explores the nutrients contained in different food items and understands that it is important to get the right amount of each nutrient.



# Acknowledgements

- PlanBee worksheet page 3
- McDonalds nutrition counter pages 18 and 19

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