

**Secondary Science SBE  
Lesson Plan Framework**

**Lesson Title:** Recapping immunisation and Introducing Adaptation in animals.

**Group** 10A4

**Location** M23

**Date/Time** 1<sup>st</sup> of May/ 9h10 to 10h10

**Learning Objectives**

Students will ...

- make a brief review of immunity main ideas.
- learn how some animals adapted to live in cold and hot climates.

**Learning Outcomes**

Students will be able to...

- recap how the white blood cells protect us from getting a disease and to stay immune.
- learn the importance of small and large surface area/volume ratio when animals adapted to cold and hot environment conditions.
- describe animals in cold climates as the ones with a thick fur and often large.
- describe animals in hot climates as the ones with a thin fur and a little body.

**National Curriculum/Syllabus References (incl. reference to previous KS)**

Ks4 Biology, GCSE Science, text book AQA Science, unit B1a 4 – Controlling infectious disease and unit B1b 5 – Adaptation for survival.

**Links to other areas**

Students will be able to learn the lesson topic using some kinaesthetic learning styles; literacy skills and citizenship.

**Previous assessment details informing this lesson.**

Last lesson was useful to check pupils' misconceptions by marking the end of unit (Controlling infectious disease) tests.

**Differentiation**

I will use different learning styles, like visual aids, kinaesthetic activity, writing skills, for the entire class have the opportunity to develop further knowledge by using a variety of learning styles able the entire class to develop further knowledge on different learning areas.

**Health and Safety**

Lesson totally safe for pupils

## Lesson Development

Timing (min)	Teacher activity	Pupil activity	# Resources	Assessment Items
2	Register	Students will pay attention to the register	Teacher planner	-
6	Hand in the last lesson end of unit tests.	Students will know their marks and check their answers as well making the correction of immunisation answers where the entire class felt difficulties to answer it.	Tests White board	End of unit Tests
10	Sharing lesson objectives as well setting instructions for the starter activity.	<p>Students will pay attention to lesson objectives about recapping immunisation and introducing the new topic about adaptation in animals.</p> <p>As a starter activity students will be watching TIM &amp; Moby animation flash video to review immunisation main ideas. Students need to pay attention and after the video they need to answer some questions like what do the white blood cells produce to kill the pathogens? And How do vaccines work?</p> <p>Going over the answers.</p>	<p>Tim and Moby animation flash files.</p> <p>Computer White board</p>	Assessment by checking students answers.
10	Going through power point to introduce the new topic.	Students will be understanding adaptation meaning and developing some learning when speaking about animals special adaptations features (like thin and thick fur, small and large surface area/volume ratio etc.) to live in hot and cold climates.	Computer White board Power point books	Q+A

		Writing some class notes if necessary.		
20	<p><b>Activity 1</b></p> <p>Setting a kinaesthetic activity related with the topic.</p>	<p>Watching a short video as an example of a pictures video that the class needs to produce by working together and per parts.</p> <p>Class will have different tasks working in pairs to develop video pictures (using some animals from hot and cold climates and write on a poster their main adaptation features), video music etc.</p>	<p>Video Computer Photo story 3 Digital camera</p>	
8-10	<p><b>Setting a plenary activity.</b></p>	<p>Students will be tested with a short true and false quiz about the lesson objectives.</p> <p>Going over the answers.</p>	<p>Computer Power point</p>	<p>Assessing items by asking to students that normally struggle if they really understood the topic.</p>
2	<p>Setting the homework and giving instructions to students pack away and move to next lesson.</p>	<p>Students will need to read the adaptation for survival booklet at home. Packing away all the material to finish the lesson.</p>	<p>Booklet</p>	<p>-</p>

## Lesson Evaluation

Lesson Rating – My Performance *(To be completed at the end of every lesson)*

<b>Criteria</b>	<b>Very Good</b>	<b>Good</b>	<b>Satisfactory</b>	<b>Unsatisfactory</b>
Knowledge				
Resources				
Lesson Objectives				
Behaviour Management				
Risk Assessment				
Differentiation				
Feedback to pupils				
Assessment				
Variety & Pace				
Level appropriate				
Visuals – high quality?				

General Comments (Improvements for your teaching and/or pupil learning)

Were your Outcomes Achieved? (Include details of Evidence)

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Teachers Lesson Rating – (*To be completed at the end of every lesson*)

<b>Criteria</b>	<b>Very Good</b>	<b>Good</b>	<b>Satisfactory</b>	<b>Unsatisfactory</b>
Knowledge				
Resources				
Lesson Objectives				
Behaviour Management				
Risk Assessment				
Differentiation				
Feedback to pupils				
Assessment				
Variety & Pace				
Level appropriate				
Visuals – high quality?				

Teacher Comments
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