

**Secondary Science SBE
Lesson Plan Framework**

Lesson Title: Medicines, Antibiotics and Immunity

Group 10A4

Location

Date/Time 11h25 to 12h25

Learning Objectives

Students will learn...

- to explain how can we develop new medicines.
- to describe why can't use antibiotics to treat diseases caused by viruses.
- to describe the meaning of mutation and antibiotic resistance.
- to explain how does our immune system work.

Learning Outcomes

Students will be able to learn...

- to explain that for developing new medicines, they have to be tested before we can used them.
- to describe antibiotics as medicines that destroy bacteria but do not destroy viruses because viruses reproduce inside cells.
- to describe bacteria mutation as the bacteria that are not affected by the antibiotic, understanding that bacteria can be resistant to a certain antibiotic.
- to explain vaccination process as the way to kill the pathogens inside our body.

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

Ks4 Biology, GCSE Science, text book AQA Science, unit B1a 4 – Controlling infectious disease.

Links to other areas

Students will be able to learn the lesson topic using some kinaesthetic learning style, literacy skills as well develop their work as independent students.

Previous assessment details informing this lesson.

Last lesson was useful to check pupils' misconceptions by walking around and supporting pupils to answer summary questions.

Differentiation

I will used different learning styles, like visual aids, kinaesthetic, 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 an area where they feel more comfortable.

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	-
5	Sharing lesson overview	Students will know that they need to revise last lesson as well move on to unit about antibiotics and immunity.	White board Computer Power point	-
10	Brief introduction about the topics to revise during the lesson.	Students will hear some topic main ideas to help them carry on their work by answering some of the summary questions.	Computer Power point	Q+A
20	Setting some summary questions	Answering summary questions supported by topic booklet, teacher and text book.	Booklet Computer White board Text book books	<i>Note: I will just make sure that all pupils are on task help them when they struggle.</i>
15	Testing misconceptions and subject knowledge...	Pupils will pay attention to teacher instructions and per groups they will make a diagram to explain how vaccination can protect us against disease.	computer Sugar paper -exercise book - text book	I will introduce the new unit with Q+A. Assess Pupils during the starter activity, being aware of pupils subject knowledge.
5	Setting the homework	Students need to revise at home to make sure they know all the last two lessons contents and be aware that next lesson they will make a test. Study MRSA for next lesson.	Booklet books	Test will be used to assess the homework revision work.

Lesson Evaluation

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

Criteria	Very Good	Good	Satisfactory	Unsatisfactory
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)

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

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

Teacher Comments