

**Secondary Science SBE
Lesson Plan Framework**

Lesson Title: Metamorphic Rocks

Group 8Y **Location** **Date/Time** 18th April/14h15 to 15h15

Learning Objectives

Pupils will learn...

- to look at how sedimentary rocks are formed and be able to describe and name some rocks examples.

Learning Outcomes

Pupils will be able...

- to learn that increasing temperature and pressure causes changes into rocks and metamorphic rocks it will appear.

- to describe and name marble, gnaiss, xist and slate as examples of metamorphic rocks.

National Curriculum/Syllabus References

Ks3 Biology, Exploring science text book (pages 96-97), Rock Texture. NC4.

Links to other areas

Lesson will cross link with literacy science knowledge as well pupils will develop some investigation skills (considering and observing). Lesson with ICT resources.

Previous assessment details informing this lesson.

Last lesson was useful to identify pupils difficulties about the topic. I will develop and be aware of some strategies for one or two disruptive pupils.

Differentiation

Level 3-4 class. I will use a practical activity that allows pupils to develop further knowledge (by thinking, discussing and observing some rocks examples) as well pupils with difficulties will have the opportunity to understand the topic ideas by drawing, writing and thinking.

Health and Safety

Lesson totally safe for pupils.

Lesson Development

Timing (min)	Teacher activity	Pupil activity	# Resources	Assessment Items
5min	Register	Pupils will pay attention to class register.	Teacher planner	-
5	Sharing lesson aim and setting starter activity	<p>Getting pupils to know the lesson aim about metamorphic rocks as well give some instructions for pupils understand the starter activity.</p> <p>For starter pupils will recap last lesson and consolidate sedimentary rocks ideas.</p> <p>Pupils will watch examples of rocks and identify them.</p>	Computer Power point Sheet Exercise books.	Effort to do and participate into starter activity. Behaviour during the lesson.
5	Setting a writing task.	<p>Pupils need to write some class notes about last lesson contents for later be able to study the unit by using the books.</p> <p>They will develop some writing skills.</p>	White board Computer Power point Exercise books	Note: I will note assess this particular task, but I will make sure that all pupils complete and have written the notes.

10	Introducing topic about metamorphic rocks.	<p>Pupils will pay attention to teacher explanation about how metamorphic rocks are formed and hopefully develop an interactive lesson by using Q+A.</p> <p>During the explanation, pupils will have the opportunity to see some rocks examples and share some doubts with the teachers.</p>	<p>Computer Marble Xist Gnaisse Slate Sandstone Limestone etc.</p>	Q+A
15	Drawing sedimentary and metamorphic rocks.	<p>Pupils will draw a diagram that shows sedimentary rocks turning into metamorphic rocks (e.g limestone turn into marble)</p>	<p>A4 sheets per person Felt tips Ruler Computer Colour pencils</p>	<p>Assessing the final product. All pupils should draw and complete the task.</p>
5-7	Class Revision	<p>Pupils will revise all the lesson ideas by reading and talking with peers. The idea is to develop their communication skills as well prepare pupils for the responsibility of trying to do a short worksheet that will be marked.</p>	<p>Books Computer Rocks cards</p>	<p>Note: Opportunity for the teacher check some misconceptions as well observe pupils behaviour.</p>
5- 10	As a plenary an interactive worksheet for assessment	<p>Pupils will organize all their knowledge and answer to an interactive worksheet about metamorphic rocks.</p>	<p>Computer Books pen</p>	<p>I will mark the books.</p>

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