

**Secondary Science SBE  
Lesson Plan Framework**

**Lesson Title:** How does the light travel?

**Group:** 8\_0    **Location:** M21    **Date/Time:** 15<sup>th</sup> May/ 13h15 to 14h15

**Learning Objectives:** Students should learn:

- to look at light and how it travels.

**Learning Outcomes:** Most students should be able to:

- that light travels from a source.
- that light travels at a very high speed, much faster than sound.
- that light travels in a straight line and that light do not pass through opaque materials.
- that the path of light can be represented by rays.

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

Ks3, Sc4 Physics, Exploring science text book , pages 128-129 , Topic about Sound and Light, NC 5

**Links to other areas**

Literacy, visual, verbal and kinaesthetic learning styles.

**Previous assessment details informing this lesson.**

Last lesson was used to make the end of unit testes about Rocks and Weathering.

**Differentiation**

By questioning  
By use of stimulus material  
By pace of the lesson and relevant use of starters  
By support  
By guided modelling

**Health and Safety**

Lesson safe for pupils.

## Lesson Development

Timing (min)	Teacher activity	Pupil activity	# Resources	Assessment Items
3	Taking the register	Pupils will pay attention to the register.	Teacher planner	
10	Sharing lesson aim And introducing starter activity.	Pupils will be listening and write down the lesson aim about how does the light travel.  Pupils will watch a TIM and Moby video about the light and they need to answer to one question (Name some natural sources of light).	Computer Tim and Moby flash animation. Books speakers	Individual assessment by Q+A
10	Going over the power point introducing the idea of light.	Pupils will be listening to brief explanation about light sources, light speed and materials where light pass or not pass through.  Class interaction.	Computer Power point White board	Assessing pupils communicative skills being developed.
10	Going over demo about the topic.	Pupils will be listening and teacher will make a brief demo showing that the light travels in straight lines by using a smoking box and a laser.	Light bulb Clamp Computer Laser Smoking box	Q+A
15	<b>Setting a practical task.</b>	Paying attention to teacher instructions, pupils will have different objects per bench. They need to dray a table to verify the level of opacity by using ray boxes.	Books ruler	Assessing pupil's ability of doing a practical by observing, obtaining and analysing.
10	<b>Setting plenary activity.</b>	Pupils will be paying attention to complete three main sentences about the lesson main ideas. Writing the notes of the plenary activity.  Going over the answers.	Books computer	Making sure that all pupils answered the questions, and assessing in particular pupils that normally struggle.
5	<b>Setting instructions to pack away.</b>	All pupils should clean their desk, pack away and move to next lesson.	-	-

