

**Secondary Science SBE
Lesson Plan Framework**

Lesson Title: How can we change colour ?

Group: 8_0 **Location:** Lab 1 **Date/Time:** 6th June/9h10 to 10h10

Learning Objectives: Pupils should learn:

-To look at how coloured filters affect the way we see objects.

Learning Outcomes: Most students should be able to:

- understand how coloured filters change white light.
- combine knowledge from different sources to explain how coloured filters work.
- understand how coloured light can be combined to produce new colours.
- understand how coloured objects appear in white light and in different colours of light.

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

Ks3, Sc4 Physics, Exploring science text book, Topic about light and mixing colours, NC 5

Links to other areas

Literacy, visual, verbal and kinaesthetic learning styles.

Previous assessment details informing this lesson.

Last lesson was used to introduce the reflection idea by making a practical activity about investigating light refraction. Pupils developed investigative skills.

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 but see risk assessment attached.

Lesson Development

Timing (min)	Teacher activity	Pupil activity	# Resources	Assessment Items
3	Taking the register	Pupils will pay attention to the register.	Teacher planner	
5-10	Sharing lesson aim And introducing starter activity.	Pupils will be listening and write down the lesson aim how can we change colour. As a starter pupils will have a worksheet on spectrum of colours, related with last lesson to complete. Going over the answers.	Computer Books worksheet	Assessing pupils' behaviour during starter as well assessing pupils answers.
15	Going over power point with a brief explanation establishing a link with the entrance activity. Giving instructions for a practical activity.	Pupils will be listening to brief explanation understanding how we can use the different colour filters in white light. Making a brief practical activity by testing and using the filters. Hopefully pupils will interact with the teacher to develop further knowledge.	Computer Power point White board Board works filters Ray boxes	Q+A Assessing pupils' practical skills being developed.
5	Brief explanation about mixing colours.	Pupils will getting to know primary and secondary colours of light.		
10	Setting a second practical investigative work.	Pupils will make a second practical activity by putting different colour objects in red, green and blue light. Understanding what colours are going to be reflected and absorbed.	Books Computer Red, green and blue filters. Ray boxes	Assessing pupils' investigative skills.

Secondary Science at Edge Hill

10	Setting a plenary activity.	As plenary pupils will have a worksheet on mixing colours (primary and secondary colours). Going over the answers for learning.	White board Computer Power point books	Assessing pupils individually and making sure that all are on task for learning. Worksheet
5	Handing in the homework sheet and setting instructions to pack away.	All pupils should clean their desk, pack away and move to next lesson.	Planner Homework sheet	Marking the homework

