



Year 8 Science

Learning Programme 5

Learning Programme 5		
The LORIC skill focus for his LP is: COMMUNICATION.		Literacy:
The Moral Virtues focus for this LP are: COURAGE and HUMILITY.		Capital letters must be used at the star
Courage - Acting with bravery and overcoming fears.		of sentences and for the first letter of proper nouns
Humility - Having a modest view of oneself.		Full stops must be used at the end of a
What will I be learning about in this Learning Programme?		sentence
To understand what a wave is, how sound and light travel by waves and the different properties of light waves.		Question marks must be used at the
		end of a question
		Apostrophes should only be used for
Where have I seen this learning before?		possession or omission • Days of the week and months must be
Light and properties of light waves in KS2. Sound waves in KS2 and year 7.		spelled correctly
		Key words must be spelled correctly
What could I use it for?		
GCSE physics, A-level physics and BTEC applied science.		
In LP5.1, I will know: 13/05/24 - (WK 1)	Key Vocabulary	Homework
how to identify patterns in observations from wave experiments and compare the properties of waves and their features;		
that transverse waves can be reflected;		Learn spellings
how to describe sound as the transfer of energy through vibrations and explain why sound cannot travel through a vacuum.	Amplitude	
20/05/04 (1990)		
In LP5.2, I will know: 20/05/24 - (WK 2)	Key Vocabulary	Homework
how to use frequency and wavelength to calculate wave speed; how to describe the relationship between frequency and pitch;		Learn definitions
how light will interact with different materials.	Frequency	Learn definitions
	,	
In LP5.3, I will know: 03/06/24 - (WK 1)	Key Vocabulary	Homework
how to draw a ray diagram showing how an image is formed in a plane mirror;		
how to complete a practical to demonstrate the concept of specular reflection;		Knowledge organiser flipper
what happens when light is refracted.	Reflection	
	Reflection	
Extended Task.		Homework
	Reflection Key Vocabulary	Homework
Extended Task.		Homework 10 core questions homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2)		
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction;	Key Vocabulary	
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light.	Key Vocabulary Refraction	10 core questions homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1)	Key Vocabulary	
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1;	Key Vocabulary Refraction	10 core questions homework Homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP2;	Key Vocabulary Refraction Key Vocabulary	10 core questions homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1;	Key Vocabulary Refraction	10 core questions homework Homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP2;	Key Vocabulary Refraction Key Vocabulary	10 core questions homework Homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP2;	Key Vocabulary Refraction Key Vocabulary	10 core questions homework Homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: 24/06/24 - (WK 2) how to revise learning from LP4;	Key Vocabulary Refraction Key Vocabulary Revision	10 core questions homework Homework Extended literacy task Homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: 24/06/24 - (WK 2) how to revise learning from LP4; how to complete a summative assessment;	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary	10 core questions homework Homework Extended literacy task
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: 24/06/24 - (WK 2) how to revise learning from LP4;	Key Vocabulary Refraction Key Vocabulary Revision	10 core questions homework Homework Extended literacy task Homework
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: LP5.6, I will know: LP5.6, I will know: LP6.6, I will know: LP7.66/24 - (WK 2) LP5.6, I will know: LP5.6, I will know: LP6.6, I will know: LP7.6, I will kn	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary	10 core questions homework Homework Extended literacy task Homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP3. In LP5.6, I will know: 24/06/24 - (WK 2) how to revise learning from LP4; how to revise learning from LP4; how to complete a summative assessment; how to review the summative assessment. Extended Task.	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary Longitudinal	10 core questions homework Homework Extended literacy task Homework 10 core questions homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP3. In LP5.6, I will know: 24/06/24 - (WK 2) how to revise learning from LP4; how to review the summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: 01/07/24 - (WK 1)	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary	10 core questions homework Homework Extended literacy task Homework
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: LIN LP5.6, I will know: Authority of the summative assessment; how to complete a summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: and predict the colour objects would be seen as;	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary Longitudinal	10 core questions homework Homework Extended literacy task Homework 10 core questions homework
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: 17/06/24 - (WK 1) how to revise learning from LP1; how to revise learning from LP3. In LP5.6, I will know: 24/06/24 - (WK 2) how to revise learning from LP4; how to revise learning from LP4; how to revise learning from LP4; how to complete a summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: 01/07/24 - (WK 1)	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary Longitudinal	10 core questions homework Homework Extended literacy task Homework 10 core questions homework
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: In LP5.6, I will know: Autoria a Seessment; how to complete a summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: 01/07/24 - (WK 1) and predict the colour objects would be seen as; why objects appear different colours using ideas of reflection and absorption;	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary	10 core questions homework Homework Extended literacy task Homework 10 core questions homework
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: how to revise learning from LP4; how to complete a summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: and predict the colour objects would be seen as; why objects appear different colours using ideas of reflection and absorption; the structures and functions of the human eye.	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary Absorption	Homework Extended literacy task Homework 10 core questions homework Homework Extended exam question
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: how to revise learning from LP4; how to revise the summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: and predict the colour objects would be seen as; why objects appear different colours using ideas of reflection and absorption; the structures and functions of the human eye. In LP5.8, I will know: 08/07/24 - (WK 2)	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary	10 core questions homework Homework Extended literacy task Homework 10 core questions homework
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: In LP5.6, I will know: Advo6/24 - (WK 2) how to revise learning from LP4; how to revise learning from LP4; how to complete a summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: and predict the colour objects would be seen as; why objects appear different colours using ideas of reflection and absorption; the structures and functions of the human eye. In LP5.8, I will know: 08/07/24 - (WK 2) how a pin hole camera works, and how to make one;	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary Absorption	10 core questions homework Homework Extended literacy task Homework 10 core questions homework Extended exam question
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: LIN LP5.6, I will know: Now to revise learning from LP4; how to revise learning from LP4;	Refraction Rey Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary Absorption Key Vocabulary	Homework Extended literacy task Homework 10 core questions homework Homework Extended exam question
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: authorized LP2; how to revise learning from LP4; how to revise learning from LP4; how to revise learning from LP4; how to review the summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: and predict the colour objects would be seen as; why objects appear different colours using ideas of reflection and absorption; the structures and functions of the human eye. In LP5.8, I will know: no 10/07/24 - (WK 1) and predict the colour objects would be seen as; why objects appear different colours using ideas of reflection and absorption; the structures and functions of the human eye.	Key Vocabulary Refraction Key Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary Absorption	10 core questions homework Homework Extended literacy task Homework 10 core questions homework Extended exam question
Extended Task. In LP5.4, I will know: 10/06/24 - (WK 2) how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: In LP5.5, I will know: In LP5.6, I will know: In LP5.6, I will know: In LP5.6, I will know: Advo6/24 - (WK 2) how to revise learning from LP3. In LP5.6, I will know: Advo6/24 - (WK 2) how to revise learning from LP4; how to review the summative assessment; how to review the summative assessment. Extended Task. In LP5.7, I will know: and predict the colour objects would be seen as; why objects appear different colours using ideas of reflection and absorption; the structures and functions of the human eye. In LP5.8, I will know: Now a pin hole camera works, and how to make one; some uses and dangers of the electromagnetic spectrum;	Refraction Rey Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary Absorption Key Vocabulary	10 core questions homework Homework Extended literacy task Homework 10 core questions homework Extended exam question
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: how to revise learning from LP1; how to revise learning from LP2; how to revise learning from LP3. In LP5.6, I will know: LIN LP5.6, I will know: Now to revise learning from LP4; how to revise learning from LP4;	Refraction Rey Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary Absorption Key Vocabulary	10 core questions homework Homework Extended literacy task Homework 10 core questions homework Extended exam question
Extended Task. In LP5.4, I will know: how to complete a practical to demonstrate the concept of refraction; how to investigate the colours in white light. In LP5.5, I will know: In LP5.5, I will know: In LP5.6, I will know: In LP5.7, I will know: In LP5.8, I will	Refraction Rey Vocabulary Revision Key Vocabulary Longitudinal Key Vocabulary Absorption Key Vocabulary	10 core questions homework Homework Extended literacy task Homework 10 core questions homework Extended exam question

FFET Award Challenge for this Learning Programme:
Design a practical to investigate the effect of reflected colours of light on different coloured objects. For example, compare what a red object looks like under different colours of light. Explain why.