

Review of Previous Lesson

2/9/2018

- State as many Vocabulary words and Learning Objectives that you remember from the last lesson as you can.
- Now complete the content learning objectives.
- Remember to grade yourself from 0 – 3.

1

Light

2/9/2018

2

Learning Objectives

2/9/2018

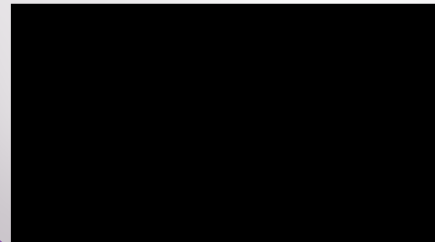
Content:	Start	End
Review light as an electromagnetic wave.		
Define: transparent and opaque, as well as absorption.		

3

Electromagnetic Waves

2/9/2018

(Bozeman Science)

<https://www.youtube.com/watch?v=WnkB8IY-ko4>


Dora noticed that the first time the electromagnetic spectrum is shown in the video, the order is incorrect. In decreasing frequency it should be: Gamma Rays, X-Rays, Ultraviolet, Visible light, Infrared, Microwaves, Radio waves.

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Raging Martians Invaded Venus Using X-ray Guns

2/9/2018

- The electromagnetic spectrum, in terms of increasing frequency is:
 - Radio waves, Microwaves, Infrared, Visible light, Ultraviolet, X-Rays, Gamma Rays

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Transparent, Translucent & Opaque objects

2/9/2018

(DeltaStep)

<https://www.youtube.com/watch?v=LLawYGD5yDs>


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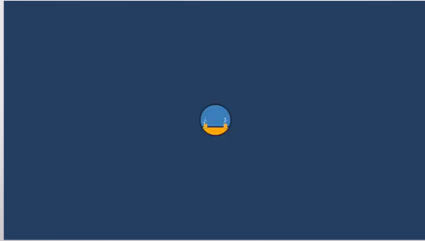
Why Are Some Things Transparent?

2/9/2018

(The Science Asylum)

<https://www.youtube.com/watch?v=wDuoKMdDD1I>

Recommended



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ROY G BIV

The Visible Light Spectrum

2/9/2018

Red
Long λ
Low f

Violet
Short λ
High f

<http://www.physicsclassroom.com/Class/light/u1212a.cfm#p3>

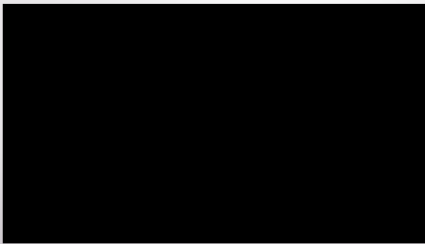
- Dispersion of visible light produces the colours red (R), orange (O), yellow (Y), green (G), blue (B), and violet (V).
- It is because of this that visible light is sometimes referred to as ROY G. BIV.
 - (Incidentally, the indigo is not actually observed in the spectrum but is traditionally added to the list so that there is a vowel in Roy's last name.)

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Light Absorption, Reflection, and Transmission

2/9/2018

(Bozeman Science)

<https://www.youtube.com/watch?v=DOsrozKjGc>

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Plenary:

2/9/2018

- Electromagnetic Waves:
 - <http://www.physicsclassroom.com/Class/light/u1212a.cfm>
 - http://www.ducksters.com/science/quiz/types_of_electromagnetic_waves_questions.php
 - <https://www.proprofs.com/quiz-school/story.php?title=electromagnetic-spectrum-quiz>
 - <https://quizizz.com/admin/quiz/5730e5caa1c4f029abdf5a6f>
 - <https://quizizz.com/admin/quiz/570bcef93469f3622b5b54fc>

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Plenary:

2/9/2018

- Transparent, Translucent & Opaque:
 - <http://www.physicsclassroom.com/class/light/Lesson-2/Light-Absorption,-Reflection,-and-Transmission>
 - <https://quizizz.com/admin/quiz/56d7a06540a317331954de2f>
 - <https://quizizz.com/admin/quiz/5817f6ce189d6d936e49dc32>
 - https://www.quia.com/quiz/2839429.html?AP_rand=1372757297
 - <https://www.thatquiz.org/tq/previewtest?GPHR5554>
 - <https://www.quiz.biz/quiz-921047.html>

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