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| **Lesson Plan:** |

**BC Prescribed learning outcomes:**

**B1** analyse the behaviour of light and other waves under various conditions, with reference to the properties of waves and using the universal wave equation

**B2** use ray diagrams to analyse situations in which light reflects from plane and curved mirrors

**B3** analyse situations in which light is refracted

**Big Ideas and Skills learned at end of unit**

1. Waves transfer energy via oscillations of particles in the medium. Matter does not transfer.
2. Decouple displacement-position vs. displacement-time graphs and use these to solve problems
3. Pictorially and physically manipulate light. This means being able to position mirrors and lenses to re-direct and focus light.
4. Differentiating virtual and real images by meaning, from calculations, and ray diagrams.
5. Explain the consequences when waves interact with each other and with objects with different penetrance

**Material and equipment needed**

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| --- | --- | --- | --- | --- | --- |
| Review pkg 2? | Video (motivational) | Video (cute)? | Video Bill Nye | formula sheet |  |

**Assessment Plan:**

**Formative -**

**Hook and Introduction**

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| --- | --- | --- | --- |
| **Time** | **Activity** | **Teaching notes** | **Assessment** |
| Before class | * Cute video? | * Have cute video on as students are coming into class |  |
| 10:15-10:25 | * Motivational video | * Show Italy voice video * Discussion: limitations, respecting culture but breaking stereotypes - we're all people. Do what your heart tells you to do (blackboards in the hallway) |  |

**Development**

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| **Time** | **Activity** | **Teaching notes** | **Assessment** |
| 10:25-11:15 | * Review session | * Go over today's agenda: review then video * Can tell the class you have a song to share with them after the video * Formula sheet * Go over setup for test next day * Class can do Quiz and Tutorial corrections * Jeanne d'Arc and Jake cannot do corrections for marks * Junhong and Jeanne d'Arc gets different version of the quiz |  |

**Closure**

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| **Time** | **Activity** | **Teaching notes** | **Assessment** |
| 11:15-11:35am | * Video + share the reflection song | Unit test next class  Mr. Scorda's room with marked assignments for corrections  No time during unit test:  End speech?  - Pleasure to teach, come in ready to learn  - Tackled my inquiry lab, asking good questions, pushing me to become a better teacher - very good quality = asking questions = the essence of inquiry  - Hope I've taught you more than just Physics, but how to become confident, empathetic, resilient, critical thinkers, skills to become successful and happy coming into the 21st century--> personal development  - I will work hard to become a great teacher and I hope we've both helped each other during these 5 weeks to be better at what we can do and hopefully for the years to come.  - I will miss you all :( |  |

Reflection (Mulan)

Chorus

What is that image I see

Is it real

Or virtual

Is it up side down or is it right side up

...