**The Mechanical Universe – Optics**

Today we are watching an online video from The Mechanical Universe series of video with a focus on our current unit of Optics.

Please answer the following questions based on the video below when watching the video together in class.

1. how does your body sense disturbance in the electromagnetic field?
2. What scientists first discovered sunspots?
3. Who invented the compound microscope?
4. Define refraction (what is refraction?).
5. What type of optical device can disperse light?
6. What does a wave’s frequency times it’s wavelength equal?
7. What type of light does the ozone layer protect us from?
8. How did Young prove that light was a wave?
9. From what metal are mirrors made?
10. What type of telescope did Newton invent?
11. What did first century scientists call the medium through which they believed light travelled through space?