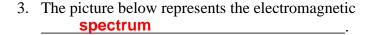
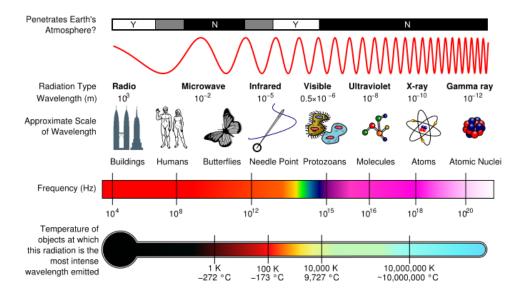
Light Properties Worksheet Answers

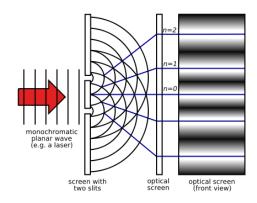
- 1. **Energy** travels through water to create waves.
- 2. The energy of light waves is known as <u>electromagnetic</u> radiation.





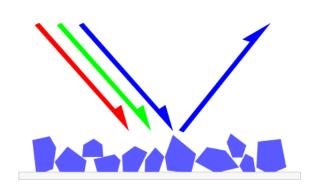


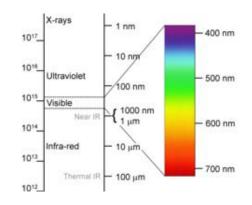
4. Young's two-slit experiment demonstrated the ______ theory of light. This theory is known as classic physics.



5. The photoelectric effect demonstrated the <u>particle</u> theory of light. These results are considered the foundation of quantum physics.

- 6. What frequency of light is reflecting off the rocks? _~430 nm
- 7. What is the natural vibrating frequency of the electrons in the rocks? ____**~430 nm**

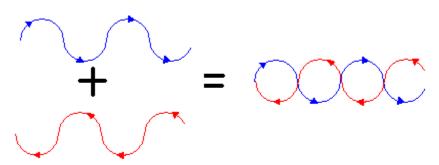




8. To the naked eye it looks as if this pencil is ______ bent which demonstrates what property of light? _____ refraction



9. The image below represents <u>superposition</u> of the red and blue waves.



10. As the following two waves propagate towards one another, the result will be **constructive** interference.

