**Light Wave Properties**

A. Vocabulary- Complete the ABC list

B. Content

 1. Select an essential question from your teacher

 2. Create a web based document (prezi or smore)

 a. relevant information

 b. appropriately labeled diagrams

 c. meaningful video (found or created)

 d. real life application or connections

 3. Upload your link to the padlet provided by your teacher

C. Evaluation

 1. Use the resources on the padlet to complete the light quiz

 2. Select another question from your teacher and fill out an evaluation of that resource

**Grading**

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| --- | --- | --- |
| **Assignment** | **Your score** | **Possible Points** |
| ABC Vocab List |  | 20 |
| Resource –Teacher Evaluation |  | 20 |
| Resource- Student Evaluation |  | 20 |
| Quiz |  | 30 |
| Self Evaluation |  | 10 |
| **Total Grade** |  | **100** |

Questions

1) What is the EM spectrum? Describe all the parts and include a labeled diagram explaining the different wavelengths.

2) How does the energy transfer with the EM spectrum and light?

3) What is diffraction? How does it relate to light?

4) What is refraction? How does it relate to light?

5) What is reflection? How does it relate to light?

6) How can a substance be described as opaque? Explain.

7) How can a substance be described as transparent? Explain.

8) How can a substance be described as translucent? Explain.

9) How can an object be radiant? Explain.

10) What phenomenon occurs when all objects are blended or reflected equally? What do you observe? Explain.