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Light and Sound Study Guide

**Light**

1. How does light travel?
2. Describe transparent, translucent, and opaque. Give an example of each!
3. Draw a convex and concave lens. Describe how each lens affects light. Also, identify which lens will make an image *bigger* or *smaller*.

Concave:

Convex:

1. Explain what absorption is:
2. Explain what reflection is:
3. Explain what refraction is:
4. What does a prism do to light?
5. How do different mediums affect light?

**Sound**

1. How is sound produced?
2. What is loudness (volume)?
3. What is pitch? Give an example of each!
4. What causes pitch to vary (change)?
5. What is frequency?
6. What is the relationship between frequency and pitch?
7. How do we measure wavelength (compression)?
8. What causes an echo?