

Name: _____

Topic 3.3 Questions

How does light behave when it encounters different materials and surfaces?

1.

	Examples of materials?
What materials do you know that reflect light?	
What materials do you know that absorb light?	
What materials do you know that transmit light?	

2. Use the concepts of transmission, scattering, absorption, and reflection to explain what happens to visible light when it strikes each surface below:
- a) a transparent glass window
 - b) a window covered by sheer curtains
 - c) a window covered by blackout blinds
3. Explain why you can see your face reflected in a smooth glass mirror but not in a sheet of smooth white paper.
4. Think about a typical school day. As you do your usual activities, you use many devices and objects. List three ways in which you use each of the following:
- a) something with extremely smooth surface:
 - b) a transparent material:
 - c) an opaque object:
 - d) something that absorbs most light that reaches it: