| Name | Date |
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| Teacher | Period |

Physics - Reflection Worksheet

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| 1. | How does regular reflection differ from diffuse reflection? |
| 2. | Does the law of reflection hold true for diffuse reflection? Explain. |
| 3. | What is meant by the phrase "normal to the surface"? |
| 4. | Which of the following are examples of regular reflection and which are examples of diffuse reflection? a. reflection of light from the surface of a lake on a calm day b. reflection of light from a plastic trash bag c. reflection of light from the lens of an eyeglass d. reflection of light from a carpet |
| 5. | Which of the following is true about a plane mirror? a. It can be used to magnify. b. It produces both virtual and real images c. It always produces a virtual image d. It form images by diffuse reflection |
| 6. | What is the magnification of a plane mirror? |
| 7. | A person stands 2.0 m away from a plane mirror. What is the apparent distance between the person and his or her image? List the image characteristics. |

| 8. | A small dog sits a distance of 1.5 m away from a plane mirror. Where is the dog's image located? If the dog jumps at the mirror with a speed of 0.5 m/s, how fast does the dog approach its image? |
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| 9. | Suppose you want to get the attention of your friend sitting at a table across the room. To do this, you are going to reflect light off of your watch from a lamp directly above you into the eyes of your friend. You estimate that the angle created between the light, your watch, and your friend to be 150°. What should the angle of incidence be to achieve this? |
| 10. | If one wall in a room is covered with mirrors, how much larger will the room appear to be? Explain. |
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