

**Main Ideas, Key Points, Questions:**

*After watching the video segment, write down key points, main ideas and big questions.*

**Objective(s):**

- *To understand and apply the Law of Reflection.*
- *To compare and contrast the following pairs of terms: angle of incidence and angle of reflection; specular and diffuse reflections; real and virtual images.*

**Notes:**

*During the video segment, use words, phrases or drawings to take notes.*

**Summary:**

*After watching the video segment, write at least three sentences explaining what you learned. You can ask yourself: "If I was going to explain this to someone else, what would I say?"*

**Answer the following.**

1. Define reflection in your own words.

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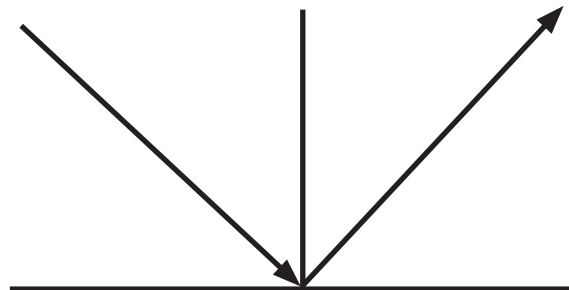
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2. Based on the law of reflection, how does the angle of the reflected ray compare to the angle of the source ray?

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3. Label the diagram below with the incident ray, reflected ray, angle of incidence, angle of reflection, and the normal line.



4. What kind of reflection do shiny surfaces, like mirrors, create?

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5. How do specular reflections and diffuse reflections differ from one another?

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6. When light rays converge on a surface to form an image, what kind of image is formed?

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Name:

Date:

**Answer the following.**

7. Why are virtual images unable to be projected onto a screen?

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8. What kind of image is formed in the “Pepper’s Ghost”? How do you know?

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