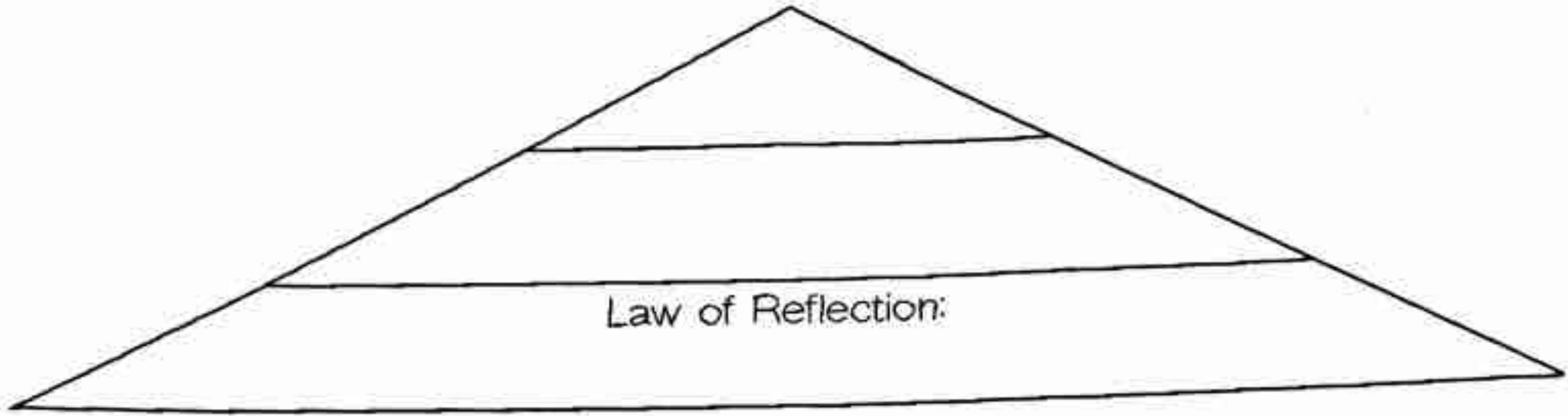


Name \_\_\_\_\_

Period \_\_\_\_\_

Date \_\_\_\_\_

4. Fill in the word triangle for *law of reflection*.



**III. Shape determines how mirrors form images. (p. 115)**

5. What do both flat and curved mirrors have in common?

\_\_\_\_\_

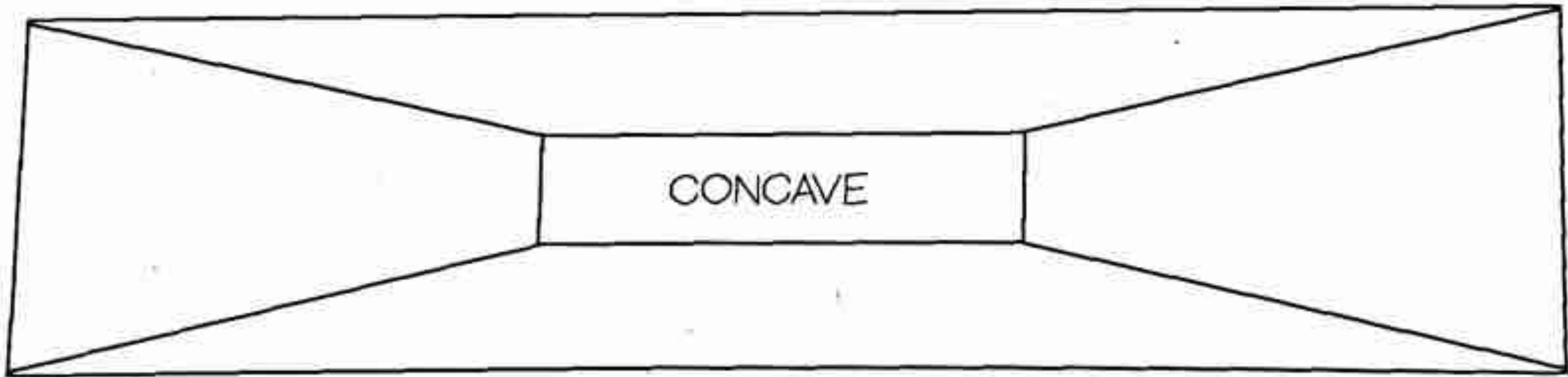
**A. Flat mirrors (p. 115)**

6. What is an image? How does a mirror reflect an image?

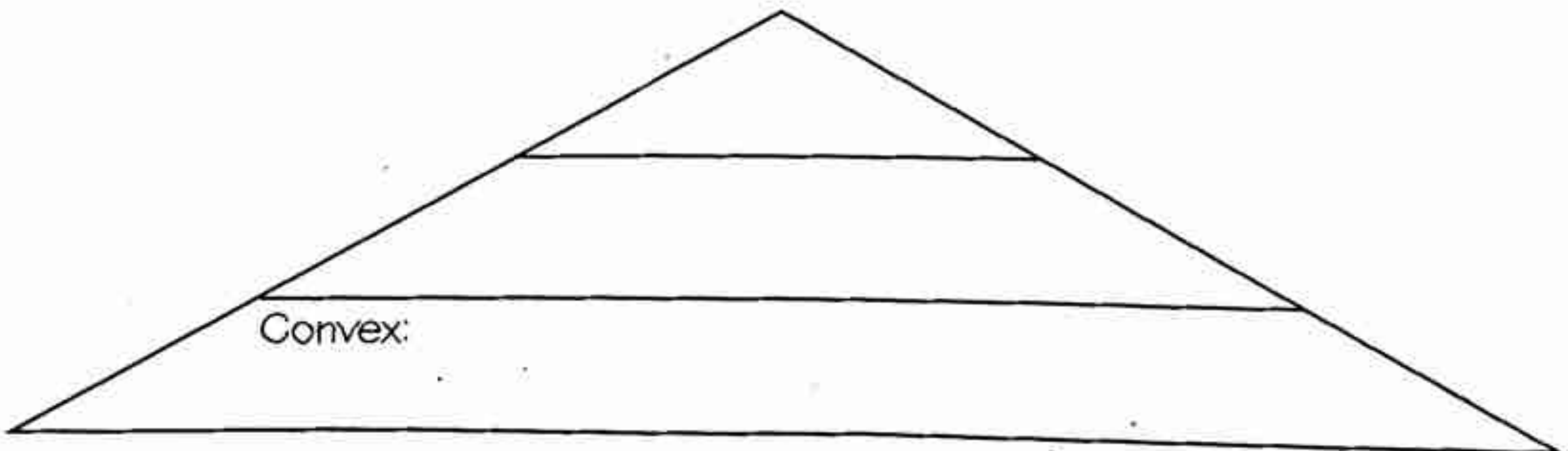
\_\_\_\_\_  
\_\_\_\_\_

**B. Concave and Convex Mirrors (p. 116)**

7. Fill in the frame game with characteristics and a sketch for the term *concave*.



8. Fill in the word triangle for the term *convex*.



## SECTION | LENSES FORM IMAGES BY REFRACTING LIGHT

**4.2 Reading Study Guide****BIG IDEA** Optical tools depend on the wave behavior of light.**KEY CONCEPT** Lenses form images by refracting light.**Review**

Refraction changes the direction of a wave.

**Take Notes****I. A material medium can refract light. (p. 119)**

1. What is refraction?

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**A. Refraction of Light (p. 120)**

2. Fill in the combination notes with details about how light is refracted when it moves into a slower or faster medium.

Notes	Sketch to Explain

3. Is the light below moving into a slower or a faster medium? How do you know?

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**B. Mirages and Rainbows (p. 120)**

4. Briefly describe how a rainbow is created.

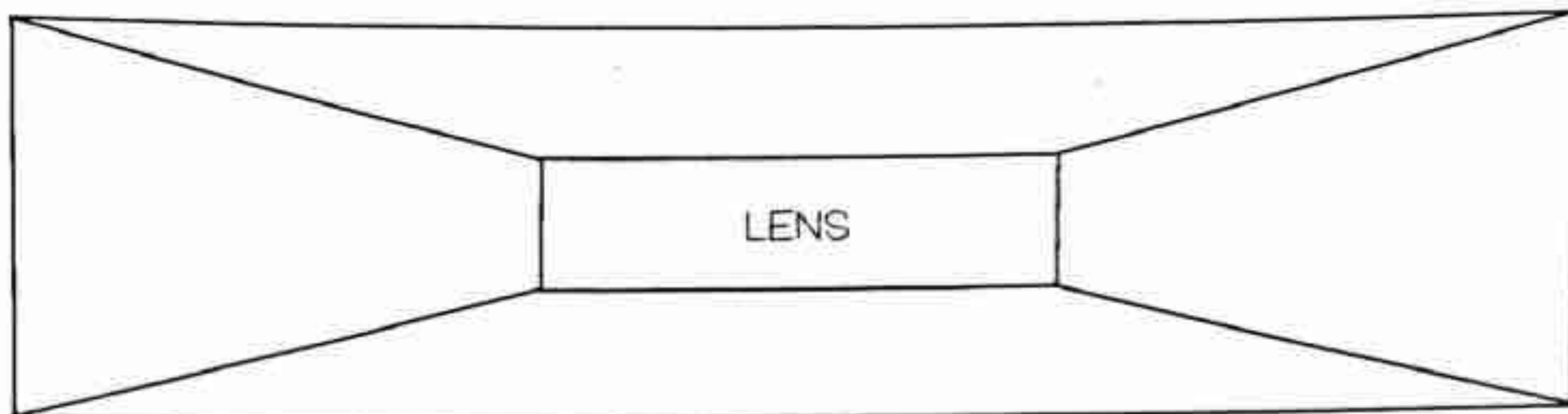
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**II. Shape determines how lenses form images. (p. 121)**

5. Fill in the frame game with characteristics of a lens.

**A. Convex and Concave Lenses (p. 121)**

6. How is a convex lens similar to a concave mirror? How is a convex mirror similar to a concave lens?

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**B. Other Types of Images Formed by Lenses (p. 123)**

7. Fill in the combination notes for different types of images that can be formed by lenses.

Notes	Sketch to Explain