

Name: \_\_\_\_\_ Date: \_\_\_\_\_

# Physics

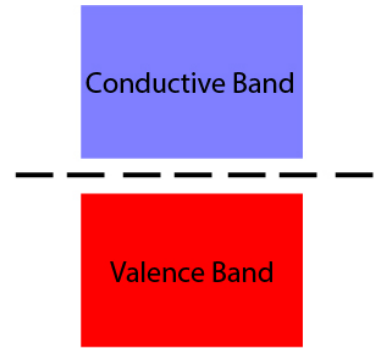
## Band Theory

**Directions:** Label the following band theory diagrams as representing conductors, semiconductors, or insulators. Explain your reasoning.

1. Does this represent a conductor, semiconductor, or insulator? \_\_\_\_\_

How did you know? \_\_\_\_\_

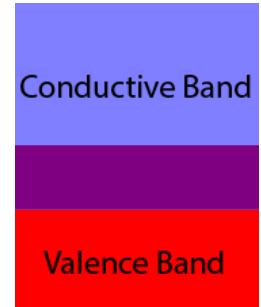
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



2. Does this represent a conductor, semiconductor, or insulator? \_\_\_\_\_

How did you know? \_\_\_\_\_

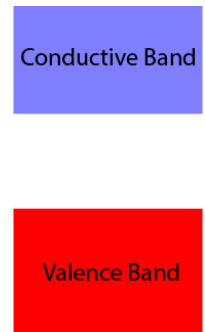
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3. Does this represent a conductor, semiconductor, or insulator? \_\_\_\_\_

How did you know? \_\_\_\_\_

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



4. Does this represent a conductor, semiconductor, or insulator? \_\_\_\_\_

How did you know? \_\_\_\_\_

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

