

Name: \_\_\_\_\_  
Mr. Willis  
Conceptual Physics: \_\_\_\_\_  
Date: \_\_\_\_\_

Unit VI  
Thermal Energy and Heat  
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# VI

## Game Day

### Family Feud

**Directions:** Use pencil. Rank the items from most important to least. As we complete the game, record the percentages or other numbers.

Appliances typically use energy in the form of \_\_\_\_\_. (Does that shock you?)

**Appliances that use the most energy:**

- |          |           |
|----------|-----------|
| 1. _____ | 6. _____  |
| 2. _____ | 7. _____  |
| 3. _____ | 8. _____  |
| 4. _____ | 9. _____  |
| 5. _____ | 10. _____ |

Air leakage is another term for a \_\_\_\_\_. (Rhymes with shaft)

**Typical sources of air leakage in the home:**

- |          |          |
|----------|----------|
| 1. _____ | 5. _____ |
| 2. _____ | 6. _____ |
| 3. _____ | 7. _____ |
| 4. _____ | 8. _____ |

Why is air leakage a problem? \_\_\_\_\_  
\_\_\_\_\_

Humidity is \_\_\_\_\_ that is in the air.

**Sources of humidity in the home:**

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

Why is humidity a problem in the winter? \_\_\_\_\_

What is a vapor barrier? \_\_\_\_\_

Insulators are materials that do not conduct \_\_\_\_\_ very well.

**Materials that have a high R-value** (good thermal insulators):

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_