

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

## Testing How Heat Energy Transfers Through Different Materials

**Investigative Question:** Does heat energy transfer at the same speed through different materials?

Examine the five rods.

Type of Material	Observations (color, texture, temperature, size, shape)
Aluminum	
Bamboo	
Brass	
Copper	
Plastic	

**Predictions:**

Heat energy will transfer fastest through the \_\_\_\_\_ rod.

Heat energy will transfer slowest through the \_\_\_\_\_ rod.

Why did you make the predictions that you did?

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

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**Data:**

Material	Beginning Time	Time When the Butter Slid Down	Elapsed Time (or 10+ minutes)	How the Rods Felt When Touched (Cool, Warm, Hot)
Example 1	12:02 P.M.	12:10 P.M.	8 minutes	Warm
Example 2	12:02 P.M.		10+ minutes	Cool
Aluminum				
Bamboo				
Brass				
Copper				
Plastic				

1. Use the space below to calculate the time that elapsed (passed) before the butter fell off or slid down each rod.
  
  
  
  
  
  
  
  
  
  
2. What can you conclude about the transfer of heat through different materials?

