

Name \_\_\_\_\_

Date \_\_\_\_\_

## What Contributes to a Good Filament?: Testing Variables

Record the results from testing filaments below:

Type of Material	Thickness of Wire	Result after 3 seconds?	Result after 10 seconds?
Nichrome	#26 (thicker)		
Nichrome	#32 (thinner)		
Steel	#32		

Summarize your findings about filaments:

1. Which of the variables above make a difference in whether or not the filament lights?
2. What do you think is going on?
3. Write down any ideas that you have that could explain why the filament glowed in some instances but not in others.