

EXPERIMENT 2-3 **Drawing a Wire**

Observations

1. Wire used:
 - A. Type: _____
 - B. Initial length: _____
 - C. Mass: _____
 - D. Initial diameter: _____
2. Size of hole in the die through which the wire was first drawn: _____.
3. When the wire is being drawn through the die, what happens to the wire's
 - A. Diameter? _____
 - B. Length? _____
 - C. Temperature? _____
4. Size of hole in the die through which the wire was last drawn: _____.
5. End results:
 - A. Final length: _____
 - B. Mass: _____
 - C. Final diameter: _____
6. Other observations and impressions during this activity:

Interpretation

1. Which of the following changed the most during the drawing process?
 - A. Mass
 - B. Length
 - C. Diameter

2. During the drawing process, I think the density of the wire
 - A. increased.
 - B. decreased.
 - C. remained the same.

3. As the wire was being drawn, its temperature _____ . I think the heat came from: _____

4. Did the wire become stiffer when it was drawn? _____

5. A. Did you anneal the wire? _____
B. If so, how did annealing influence the wire? _____

6. One possible reason that a jeweler might draw a wire would be _____

_____ .

