

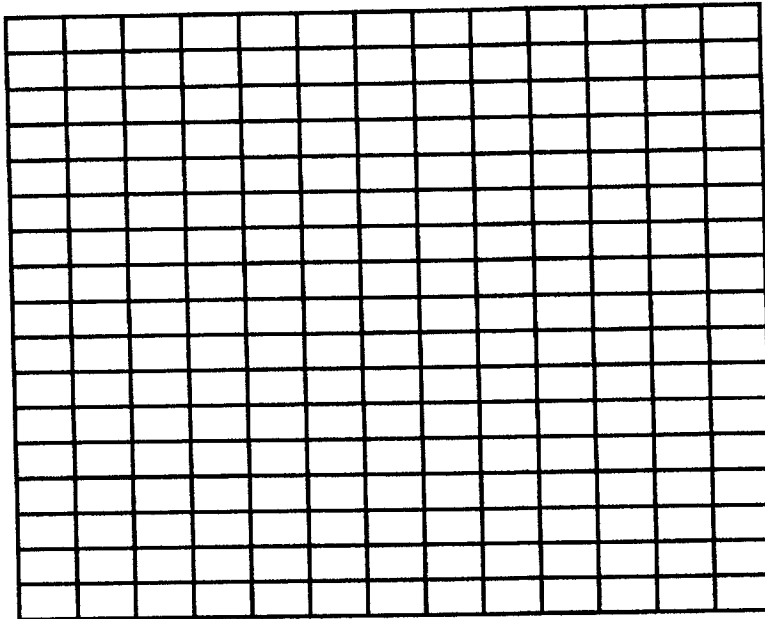
## The Effects of Temperature on the Rate of Diffusion

**Data Table:**      **Title:**

| Time (min) | Distance (mm) |            |                  |
|------------|---------------|------------|------------------|
|            | Hot Water     | Cold Water | Room Temperature |
| 1          |               |            |                  |
| 2          |               |            |                  |
| 3          |               |            |                  |
| 4          |               |            |                  |
| 5          |               |            |                  |
| 6          |               |            |                  |
| 7          |               |            |                  |
| 8          |               |            |                  |
| 9          |               |            |                  |
| 10         |               |            |                  |

**Analysis:** Make *one graph* of your results using the distance traveled versus time. Place time on the horizontal axis. The graph will have *three* lines. Use *blue* for cold water, *red* for hot water and *green* for room temperature water. Include a key.

**Title:**



### **Questions:**

1. What is the relationship between diffusion and temperature?
2. Describe two sources of error in this lab activity.