

Analysis and Conclusions: **Answer Key**

- 1. What similarities if any can you list between the samples after they have recrystallized? (You may wish to compare # 1 to # 2, then # 1 to # 3, then #2 to #3)**

Sample 1 does not look like either of the other 2 samples.

Samples 2 and 3 should show triangular facets for crystal sides. Sample 3 will have much larger crystals than sample 2.

- 2. What differences, if any, are there between the three samples after they have recrystallized?**

Sample 1 does not look like either of the other two samples.

- 3. What factor is the only one varied in this experiment?**

Cooling time

- 4. Write a simple statement of the relationship between cooling rate and crystal size.**

The longer the cooling time, (slower cooling), the larger the crystal size.

- 5. Use the video taken from your samples to make a PowerPoint presentation explaining the relationship between cooling rate and crystal formation. Draw a parallel to the crystals in three rocks you find outside. Explain what this tells you about where the rocks formed, deep under ground, near the surface, above the surface. This portion of your lab will be counted as 50% of the lab group grade. If you do not have access to the video camera, use the computer to create your own graphics of the end results of the 3 parts of your experiment.**