

## Science 7 Planet Earth – COOL CRYSTALS, HOT GEMS

Criteria	4 WOW!	3 Yes!	2 Yes, but...	1 Not Quite
<b>Data Collection</b>	Data is recorded thoroughly and neatly in space provided. Diagrams and/or descriptions are accurate and detailed.	Data is recorded neatly in the space provided. Diagrams and/or descriptions are accurate.	Data is recorded in space provided but either contains some errors or neatness is questionable. Diagrams and/or descriptions are included.	Data is incorrect or incomplete. Diagrams and/or descriptions are either not included or do not provide any useful information.
<b>Conclusions</b>	Uses data to provide convincing support for conclusions.	Uses data to support conclusions.	Uses data to provide partial support for conclusions.	Draws conclusions that are not related to data.
<b>Analysis Questions</b>  <b>X2</b>	Questions are answered thoroughly, accurately and demonstrate clear understanding of the relationship between cooling rate and crystal size in igneous rock	Questions are answered accurately and demonstrate understanding of the relationship between cooling rate and crystal size in igneous rock	Questions are answered but may not be completely accurate. Student's understanding of the relationship between cooling rate and crystal size in igneous rock is unclear.	Questions are incomplete and may not be completely accurate. Student's understanding of the relationship between cooling rate and crystal size in igneous rock is unclear.
<b>Communication throughout lab</b>	Communicates clearly with group members regarding instructions resulting in a seamlessly performed lab.	Communicates well with group members regarding instructions and the lab is performed well.	Communicates with members of the groups regarding instructions and the lab is completed.	Communication with group members is lacking and lab execution suffers as a result.
<b>Consideration throughout lab procedure</b>	All safety equipment and precautions are observed and student is conscientious throughout duration of lab procedure	Safety equipment is used but need to be reminded of some precautions. Student is careful during the lab procedure	Reminders are needed for some safety equipment and most precautions. Student is careless at times during the procedure	Reminders are needed for safety equipment and precautions. Student is careless throughout the procedure
<b>Clean Up</b>	Chemicals are disposed of as instructed either independently, or by checking first. All equipment and lab space is wiped clean.	Chemicals are disposed of as instructed. Equipment and lab space is wiped clean once reminded.	Chemicals are disposed of as instructed when reminded. Student wipes lab space clean once reminded.	Chemicals are disposed of incorrectly. Lab space is left dirty and messy.

**TOTAL Mark for Cool Crystals, Hot Gems:    /28**