



Arctic Impact

Data Analysis

1. Using your graphs, find at least 3 different scenarios (size, speed, and angle) that could have formed the 18 km El'gygytgyn crater.

	Projectile Density	Asteroid Diameter	Trajectory Angle	Object Velocity
1				
2				
3				

2. Using the Impact Simulator map and crater size tool, find El'gygytgyn crater, place the crater on the map to confirm your results.
3. Find GDS (your school) on the map, if GDS was hit by a similar size asteroid; would your house be in the crater?
4. Using Google Earth on one computer, locate at least two of the following craters. Once you locate a crater, on the other computer find the location on the embedded map and determine one possible impact scenario for each crater.

Impact Craters for Exploration on Google Earth

El'gygytgyn Russia	67.5	172
Meteor Crater USA	35.027	111.02
Manicouagan Canada	51.4	-68.7
Pingualuit, Canada	61.276	-73.662
Wolf Creek, Australia	-19.171	127.795
Roter Kamm , Namibia	27.767	16.287
Monturaqui, Chile	-23.927	-68.261
Siljan, Sweden	61.042	14.843

For more exploration download the Google Earth files from [Think Lemon](#).