Name: _____ Date: _____

Unit 2 Project Checklist

Option 1
I Need To …
❑ search the Internet for images or video clips that show shapes or relationships that are parabolic.
❑ select two images or video clips, one related to objects in motion and one related to fixed objects.
❑ model each image or video clip with a quadratic function.
❑ determine how accurate my model is.
❑ determine whether the situation in each image or video clip should be quadratic in nature.
❑ write a one-page report.
My Report States …
❑ where quadratic functions and equations are used in my situations.
❑ when a quadratic function is a good model to use in a given situation.
❑ limitations of using a quadratic function as a model in a given situation.

Option 2
I Need To …
❑ determine the best location(s) to position avalanche cannons in my resort.
❑ justify my thinking on the locations(s).
❑ determine three different quadratic functions that can model the trajectories of avalanche control projectiles.
❑ graph each function.
❑ illustrate the specific coordinates on my graph of where the projectile will land.
❑ write a one-page report.
My Report States …
❑ the location(s) of the avalanche control cannon(s).
❑ the intended path of the controlled avalanche(s).
❑ the location of the landing point for each projectile.