Engage:

Let students know that we will be continuing on our investigation of designing an energy bar. They will now get to decide what ingredients will go in their energy bar. They will choose these ingredients based upon their knowledge of inequalities.

Explore:

Have students read through the handout and design their methods for data collection and analysis. This should be fairly open ended since students are only given a guide for designing the energy bar (i.e. core -> fruits -> nuts -> sweets).

Explain:

Have students discuss why they selected each ingredient and how when combined ingredients work as a system of equations.

Elaborate:

Discuss as a class the importance of each nutritional fact and how a lack (abundance) of certain ingredients (i.e. sugars) can effect the body.

Evaluate:

Before students leave on the third day of this investigation, make sure they have completed their “Exit Ticket”