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| **Unit 5 -- Energy** |
| **I CAN statements**  I CAN create a pie chart showing how energy is divided up for any physical situation.  I CAN create an energy bar chart to show how energy is conserved.  I CAN use energy bar charts to solve problems involving conservation of energy.  I CAN use energy bar charts to create a mathematical model of energy conservation.  I CAN explain in a few sentences how energy is stored up and then re-used for any physical situation. |
| **Graphs/Shapes**  Energy pie charts  Energy bar charts (LOLcharts) |
| **Diagrams**  Energy flow charts |
| **Equations**  Ek = 1/2mv2 EG = mgh Eel = 1/2kx2 Eth = FfΔx Work = FΔxcosΘ |
| **Key Terms**  Energy conservation thermal kinetic elastic gravitational |
| **Lab Big Ideas**  Energy can be stored in one form, then transformed.  Conservation of energy can be used to analyze frictional dissipation.  Efficiency is a measure of the ratio of useful energy output to total energy input. |