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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 chartsEnergy 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. |