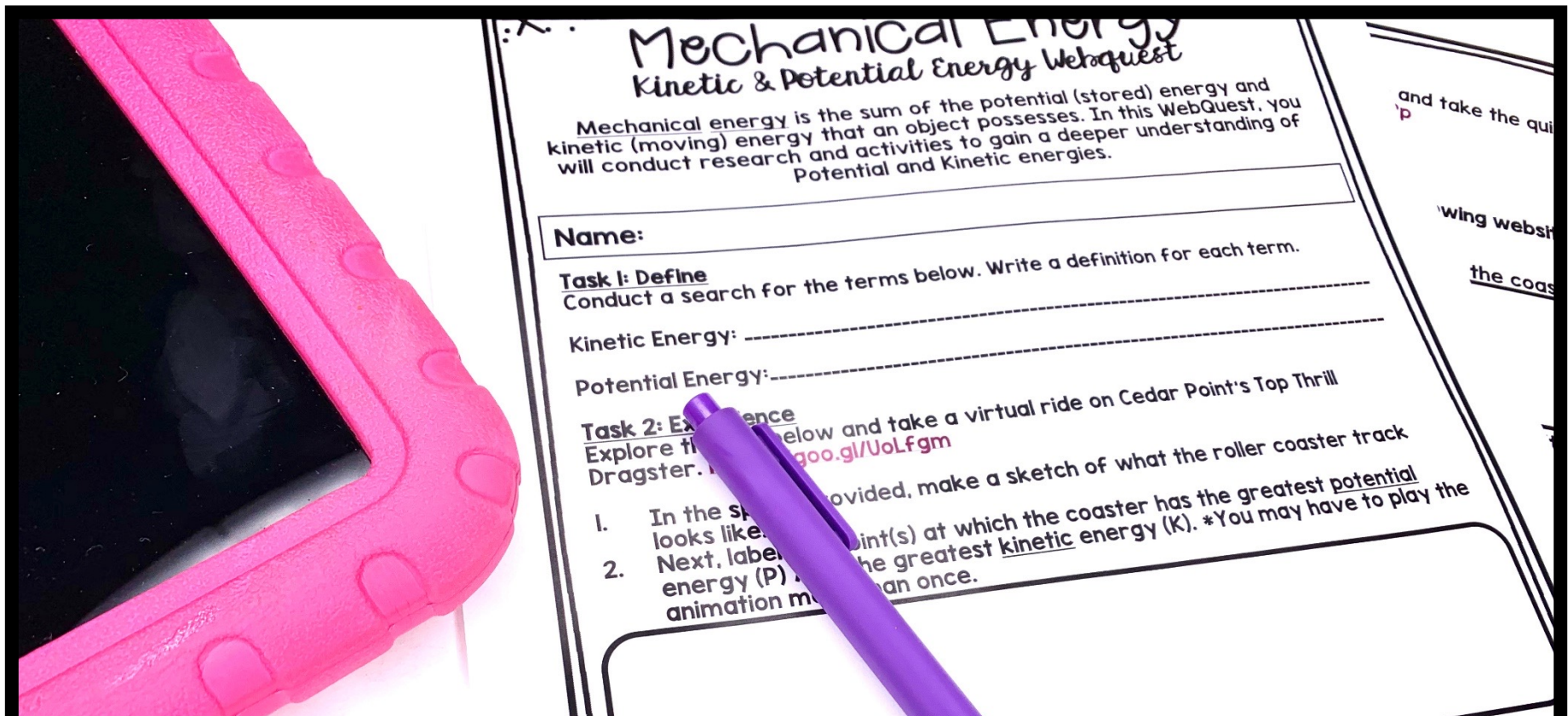




KINETIC & POTENTIAL Energy WebQuest

MECHANICAL ENERGY

Kinetic & Potential Energy Webquest

Name: _____

Mechanical energy is the sum of the potential (stored) energy and kinetic (moving) energy that an object possesses. In this webquest, you will conduct research and activities to gain a deeper understanding of potential and kinetic energies.

Task 1: Define

Conduct a search for the terms below. Write a definition for each term.

Kinetic Energy: _____

Potential Energy: _____

Task 2: Experience

Explore the link below and take a virtual ride on Six Flags' The Raging Bull roller coaster: <https://www.sixflags.com/greatamerica/attractions/raging-bull>
the space provided, make a sketch of what the roller coaster track
like. (It's okay if it's not a perfect representation.)
the point(s) at which the coaster has the greatest potential
the greatest kinetic energy (K). *You may have to play the
an once.

Task 4: Assess

Visit the following websites and take the quiz. Be sure to record your scores.

Potential Energy Quiz:

https://www.ducksters.com/science/quiz/potential_energy_questions.php

Kinetic Energy Quiz:

https://www.ducksters.com/science/quiz/kinetic_energy_questions.php

Kinetic Energy Quiz Score: _____

bsite.

1ster

's) on the a tion where

amples of the es of

Example

ut mechanical energy. Jose
ential energy. Denise
ffect on an object's

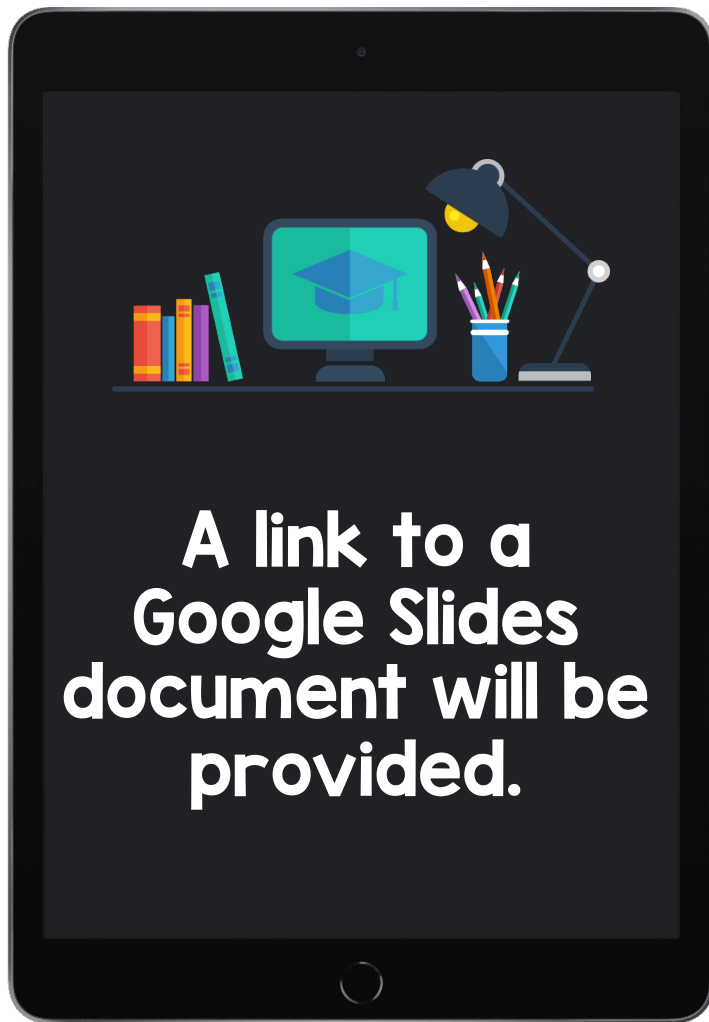
<https://bit.ly/3o6XI2V>

Task 7: Compare

a Venn Diagram that compares kinetic and potential energy.

kinetic

potential



Mechanical Energy

Kinetic & Potential Energy Webquest

Mechanical energy is the sum of the potential (stored) energy and kinetic (moving) energy that an object possesses. In this WebQuest, you will conduct research and activities to gain a deeper understanding of Potential and Kinetic energies.

Name: _____

Task 1: Define
Conduct a search for the terms below. Write a definition for each term.

Kinetic Energy: _____

Potential Energy: _____

Task 2: Experience
Explore the link below and take a virtual ride on Cedar Point's Top Thrill Dragster. <https://goo.gl/UoLfgm>

- In the screenshot provided, make a sketch of what the roller coaster track looks like.
- Next, label the point(s) at which the coaster has the greatest potential energy (P) and the greatest kinetic energy (K). *You may have to play the animation more than once.

Task 3: Explore
There are 2 types of potential energy. Visit the website listed below and view the animation. From the animation, write your own definition for each of the terms listed below. Then, conduct a quick search to see if your definitions were correct. <https://goo.gl/olw9E>

	Definition	Researched Definition
Gravitational Potential Energy		
Elastic Potential Energy		

© The Shady Science Teacher 2017

**Digital
Option Included!**

**No Prep!
Just print & go!**