

Ganado Unified School District #20

(Science/4th grade)

PACING Guide SY 2017-2018

Resources	AZ College and Career Readiness Standard	Essential Question (HESS Matrix)	Learning Goal	Vocabulary (Content/Academic)
Fourth Quarter March 2018 to May 2018 Project Lead the Way Lessons				
A Closer Look Teacher's Edition Reading and Writing workbook Visual Literacy workbook Activity Lab book Assessment Workbook Activity Flipchart School to Home Activities workbook Key Concept Cards Vocabulary Cards	Strand 5: Physical Science Concept 2: Motion and Forces PO 1. Describe the following forces: <ul style="list-style-type: none"> • Gravity • Friction PO 2. Describe the various effects forces can have on an object (e.g., cause motion, halt motion, change direction of motion, cause deformation) PO 3. Examine forces and motion through investigations using simple machines (e.g., wedge, plane, wheel and axle, pulley, lever). PO 4. Demonstrate effects of variables on an objects motion (e.g., incline angle, friction, applied forces).	Part 1: Energy 120 minutes How are potential and kinetic energy related? What happens to energy during a collision? Part 2: Energy Conversion in Action 120 minutes How are energy conversion and transfer related? How can humans use energy conversion and	<ul style="list-style-type: none"> • I can state question that engineers may ask gathering information about a situation people want to change. • I can list ways in which energy can be transferred. • I can describe six main forms of energy, including light, thermal, electrical, mechanical, chemical, and nuclear. • I can list ways in which energy may be converted from one form to another. 	

**English Language
Learner Teacher's
Guide Online tools
at:
<https://connected.mcgraw-hill.com>**

transfer to meet needs and wants?

How is usable energy converted from resources in your area?

What are some energy conversions that take place to create usable energy in a community?

- I can knowledge or skill share findings and conclusions with an audience.
- I can differentiate between potential and kinetic energy.
- I can explain how energy can be converted to meet a human need or want.

