



STAAR REPORTING CATEGORY 2: FORCE, MOTION, AND ENERGY

SE, STANDARD, MAIN IDEA OF SE, AND KEY VOCABULARY

TEKS		Standard	Main Idea	Key Vocabulary
6.8A	Compare and contrast potential and kinetic energy	SS	Compare & Contrast Potential/Kinetic Energy	Potential energy, kinetic energy
6.8C	Calculate average speed using distance and time measurements	SS	Calculate average speed	Average speed, average distance, average time, speed formula $s=d\div t$
6.8D	Measure and graph changes in motion	SS	Graph changes in motion	x-axis, y-axis, speed, constant speed
6.9C	Demonstrate energy transformations such as energy in a flashlight battery changes from chemical energy to electrical energy to light energy	RS	Energy transformations in everyday objects	Energy transformation
7.7A	Contrast situations where work is done with different amounts of force to situations where no work is done such as moving a box with a ramp and without a ramp, or standing still.	SS	Understanding how different forces affect work	Work
8.6A	Demonstrate and calculate how unbalanced forces change the speed or direction of an object's motion	RS	Calculate unbalanced forces	Net Force, change in speed
8.6B	Differentiate between speed, velocity, and acceleration	SS	Differentiate speed, velocity, acceleration	Speed, velocity, acceleration
8.6C	Investigate and describe applications of Newton's law of inertia, law of force and acceleration, and law of action-reaction such as in vehicle restraints, sports activities, amusement park rides, Earth's tectonic activities, and rocket launches	RS	Investigate and describe Newton's 3 Laws	Law of inertia, law of force, law of action-reaction, restraint, tectonic activities