Physical Science EOCT Review Key Concepts

Section 1: Motion, Forces, and Energy
Motion and Force: **SPS 8. Students will determine relationships among force, mass, and motion.**
Energy: **SPS 7. Students will relate transformations and flow of energy within a system.**
Speed and Velocity: *SPS 8a. Calculate velocity and acceleration.*

- An object is in motion when it is continuously changing its position relative to a reference point. *Speed* is how fast an object is going with respect to an object. *Velocity* is a measure of the speed *in a given direction*. You can say the top speed of an airplane is 300 kilometers per hour (kph). But its velocity is 300 kph in a northeast direction.
- Calculating speed or velocity
  - Speed = distance/ time   **(s = d/t)**   and   velocity = distance/time in a particular direction **(v = d/t)**
    1. Bob travels 300 km in 10 hrs towards the store.   Speed = 300 km / 10 hr = 30km/hr
    2. Ashley swims 50 m in 10 seconds.   Speed = 50 m / 10 s = 5 m/s

Acceleration: *SPS 8a. Calculate velocity and acceleration.*
Acceleration is the increase of velocity over a period of time. Deceleration is the decrease of velocity.
$$\text{Acceleration} = \text{final velocity} - \text{initial velocity/time}$$
$$a = v_f - v_i / t$$
Changing direction can also cause acceleration (or deceleration) because the velocity in that direction has changed.
Calculate the acceleration:
1. A train traveling 20 meter per second takes 10 seconds to stop. $[0\text{m/s} - 20\text{m/s}]/10\text{s} = -2 \text{ m/s}^2$
2. A boy gains a speed of 5 m/s after running for 20 seconds. $[5 \text{ m/s} - 0 \text{ m/s}]/20 \text{ s} = 0.25 \text{ m/s}^2$

Newton's Laws of Motion: *SPS 8b. Apply Newton's 3 Laws to everyday situations by explaining the following: inertia, relationship between force, mass, and acceleration, and equal and opposite forces.*

- Newton's 1st Law: The first law says that an object at rest tends to stay at rest, and an object in motion tends to stay in motion, with the same direction and speed unless acted on by unbalanced force. (Also called the Law of Inertia)
- Newton's 2nd Law: defines the relationship between *acceleration*, *force*, and *mass*. As the mass goes up, the same force will cause an object to have less acceleration. This law is often stated mathematically as F= mass x acceleration.
- Newton's 3rd Law: The third law says that for every action (force) there is an equal and opposite reaction (force). Forces are found in pairs.

Forces and Gravitation: *SPS 8c. Relate falling objects to gravitational force.*
- Gravity is the force that pulls objects toward the Earth. It is affected by mass and distance.
  The equation for the force of gravity is **F = mg**.
- Acceleration due to gravity
  The acceleration due to the force of gravity on Earth is g: 9.8 m/s^2
- Weight
  The weight of an object is the measurement of the force of gravity on that object. You weigh something on a scale, according to the force that the Earth pulls it down: **w = mg**; where **w** is the weight in Newtons (N).

Mass and Weight: *SPS 8d. Explain the difference between mass and weight.*
Mass is a measure of how much matter an object has. Weight is a measure of how strongly gravity pulls on that matter. Mass is constant, but the weight may change.

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