

Teacher / Team Name: Colonial School District - 6th Grade

Topic: FTCTM - Force and Motion

Subject(s): Science

Days: 25

Grade(s): 6th

Key Learning: Changes in motion depend upon the size and direction of the total unbalanced force exerted on the object.

When the forces acting on an object are balanced, its motion will not change.



Unit Essential Question(s): How do force(s) affect the motion of an object?



Concept:
Speed of an Object

Concept:
Gravity

Concept:
Forces



Lesson Essential Question(s):
How do you determine the speed of a moving object? (A)

How can you identify and illustrate constant speed and non-constant speed of an object? (A)

Lesson Essential Question(s):
How does Gravity affect an object on Earth? (A)

Lesson Essential Question(s):
How do balanced and unbalanced forces affect the motion of an object? (A)

How does the size and direction of the forces influence the path and motion of an object? (A)

How can we use force diagrams to calculate the total force and predict the motion of an object? (A)



Vocabulary:
Constant Speed, Non-constant Speed, Linear, Non-Linear, Average Speed

Vocabulary:
Gravity, Mass, Weight, Vertically Downward, Force

Vocabulary:
Air Resistance, Friction, Support Force,, Total Force, Elastic Force, Balanced Force, Unbalanced Force, Tension Force