Cornell Notes **27**	Topic/Objective: Freefall	Name:
		Class/Period:
		Date:

Essential Question: What may be gained by understanding the effect that gravity has on motion?

Questions:	Notes: Because of _____, objects accelerate as they fall to the ground.
	The acceleration due to gravity on earth at sea level is 9.8 m/s^2.
	Unless specified, we will assume we are at sea level on earth.
	Do you think the acceleration due to gravity is different on the moon?
	Why do you think that?
	What other kinematic questions could we ask about the moon?

Summary:

Questions:	**Notes:** An apple falls out of a tree. It falls for 0.4 s. How far did it fall?
	A brick is dropped off of a building. It was dropped from a height of 65 m. How
	long did it take to hit the ground ?
	A penny is dropped off of a tall building. It hits the ground 5 s later. What is its
	speed when it hits the ground?

Summary:

Questions:	Notes: What goes up,
	Because of gravity, objects will _____ as they go up and
	_____ as they come back down.
	The total amount of time in the air is called the hang time.
	At sea level on earth, the acceleration due to gravity (g) is a constant 9.8 m/s^2.
	However, different objects will accelerate at different rates if you drop them.
	Give an example of this and an explanation.
	_____ will cause falling objects to accelerate at a slower
	rate than 9.8 m/s^2. Because of _____, falling objects
	will reach a final speed. This is called _____.
	Common Units and Symbols
	Information Symbol Unit
	Distance
	Time
	Speed/Velocity
	Acceleration

Summary:

Questions:	Notes:

Summary: