8th Grade Science Student_____
Redlands Middle School

Learning Tracker
1st Quarter – Force and Motion Unit

F = Formative
S = Summative

Identify and calculate the direction and magnitude of the forces that act on an object, and explain the results in the object's change of motion			
Assignment	**Learning Target**	**Type**	**Grade**
Force and Motion Concept Drawings	I can produce meaningful descriptions of key terms and concepts related to force and motion	**F**	
Force and Motion Demo / Skill Builder	I can identify a force as a push or a pull. I can identify motion as a change of position of an object.	**F**	
Motion and Balance Video / Note-Taking Guide	I can identify factors which influence the relationship between forces and motion		
Sizzler Activity / Skill Builder	I can define motion using the variables distance, rate, and time.	**F**	
Instantaneous and Average Speed / Skill Builder	I can define motion with the relationship between rate, time, distance and direction.	**F**	
Hot Wheels: Part 1 / Skill Builder	I can identify evidence that gravity is an accelerating force.	**F**	
Hot Wheels: Part 2 / Skill Builder	I can collect evidence which verifies Newton's Second Law of Motion which states the momentum (force) an object exerts depends on its mass and how fast it is going.	**F**	
Action Reaction Lab / Skill Builder	I can create situations which produce evidence which supports Newton's Third Law of Motion	**F**	
Friction Comparison Chart	LT: I can identify four forms of friction and explain how they influence the motion of objects.	**F**	
Unit Test	I can Identify/describe forces and the motion which results from forces.	**S**	
Unit Lab Test	I can design a lab which collects data that verifies one of Newton's Laws of Motion.	**S**	

1st Quarter – Flight PBL Assessment Activity

Glider Lab	I can build a model hang glider which will prepare me to build my own egg flier	**F**	
Egg Flight	I can build and fly a glider which carries an egg a minimum of a 2:1 glide ratio	**S**	