**FORCES AND MOTION PROFICIENCY SCALE**

| Name:Science Core: |
| --- |

| **Types of Energy Long Term Learning Target: I can describe and predict interactions between objects and within systems of objects.**  |
| --- |
| Score 4.0 | In addition to score 3.0 performance, the student demonstrates in-depth inferences and applications that go beyond what was taught. Student consistently scores a 4.0 on target related assessments.  |
| Score 3.0 | The student will (supporting learning targets):* + Describe and identify an unbalanced force
	+ Predict how an object will move when it is acted on by an unbalanced force
	+ Describe and classify forces that can act on an object
	+ Explain and apply Newton’s three laws of motion
	+ Explain how gravity works and the factors that affect its strength.
	+ Describe how friction can affect the motion of an object.
	+ Explain and demonstrate that changes in motion are due to unbalanced forces.
 |
| Score 2.0 | The student will recognize or recall specific vocabulary, such as:* **Inertia, motion, acceleration, force, net force, velocity, static friction, rolling friction, sliding friction, gravity, mass, Newton’s 3 laws, conservation of momentum, acceleration, weight, velocity, speed, vector, electromagnetic force**
 |
| Score 1.0 | With help, partial success at score 2.0 content and score 3.0 content |

**Performance Tracker**

Pick two assignments/activities to showcase in your portfolio along with this completed proficiency scale document (one of your choices should be summative). Complete a reflection for one piece of your choice.

*F = Formative (practice) S = Summative (final test/project)*

*Summative assessments and assignments carry the most weight.*

| **Assignment/Assessment** | **F/S** | **Student Score** | **Assignment/Assessment** | **F/S** | **Student Score** |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Please complete the following at the end of the unit:**

| CLAIM - Rate yourself on the proficiency scale for this target.(1-4) |  |
| --- | --- |
| EVIDENCE - Look back at your work and scores for this unit. Describe the evidence you have for your rating.  |  |
| REASONING - Using your evidence make a final statement that supports your claim. |  |
| What are your challenges and successes during this unit? |  |