UNIT PLANNING OVERVIEW FOR QUARTER: 1 – Science AMPLIFY

**COMPLETE WITH HOME CONNECTION**

**Teacher Name: Gant, Wengren**

**Grade Level: 3**

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| **Subject: Science****Topic Description: Balancing Forces** |
| **STAGE 1** | **DESIRED RESULTS** |
| **Established Goals** | * Understand how to collect data
* Identify types of forces
* Identify patterns of magnetic forces
* Investigate gravity of forces
* Analyze and diagram forces
* Investigate how forces balance
* Compare balanced and unbalanced forces
* Use the scientific thinking processes to conduct investigations and build results
* Communicate results of investigations through written word and diagrams
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| **Essential Questions** | * What makes an object move?
* How can a force act without objects touching?
* In what ways can magnetic forces make an object move?
* What makes an object fall?
* Why would an object not move even if a force is acting on it?
* What can make forces not be balanced anymore?
* What makes an object start to move?
* How can a force act without objects touching it?
* In what ways can magnetic forces make an object move?
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| Students will know… | **Vocabulary**: force, investigate, investigation, observation, observe, evidence, attract, magnet, magnetic force, model, non-touching force, repel, touching force, diagram, explanation, gravity, balanced forces, exert,  |
| Students will be able to… | * Plan and conduct investigations,
* Analyze patterns in data (patterns)
* Obtain information about magnetic force, gravity, and balanced and unbalanced forces.
* Write explanations and create physical models and diagram models to show why the train’s vertical motion is stable at times and changes at times (stability and change).
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| **STAGE 2** | **ASSESSMENT EVIDENCE** |
| **Performance Tasks** | * Investigations/Activities
* Investigation Notebook
* Quizzes/Assessments
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| **Other Evidence** | * Teacher observations
* Exit slips
* Self Reflection
* On-the-Fly Assessment
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| **STAGE 3**  | **HOME/SCHOOL CONNECTION** |
| **Learning Activities** | * Use magnets on the refrigerator to see how they attract and repel
* Trying moving object by pushing and pulling using different forces
* Discuss essential questions with students.
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