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| EALR 4 Physical ScienceForce and Motion*Balanced and unbalanced forces* |
| **Standard** | **Performance expectation:****Learning Targets.** | **Covered** | **How well can I do this?** |
| 6-8 PS1A | Measure the distance an object travels in a given interval of time. Calculate the object’s average speed using an equation. |  |  |  |  |
|  | Illustrate the motion of an object using a graph. |  |  |  |  |
|  | Infer the motion of an object from a graph of the object’s position vs. time |  |  |  |  |
|  | Infer the motion of an object from a graph of the object’s speed vs. time |  |  |  |  |
| 6-8 PS 1B | Demonstrate and explain the frictional force acting on an object with the use of a physical model. |  |  |  |  |
| 6-8 PS 1C | Determine whether forces on an object are balanced or unbalanced. Give evidence. |  |  |  |  |
|  | Given a description of forces on an object, predict the object’s motion. |  |  |  |  |
| 6-8 PS1D | Given two different masses that receive the same unbalanced force, predict which will move more quickly. |  |  |  |  |
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| EALR 2 inquiry*Questioning and Investigating* |
| 6-8 INQA | Generate a question that can be answered through a scientific investigation |  |  |  |  |
| 6-8 INQB | Plan and conduct a controlled investigation |  |  |  |  |
|  | Propose a hypothesis with a reason |  |  |  |  |
|  | Work collaboratively with other students |  |  |  |  |
| 6-8 INQC | Communicate results of an investigation |  |  |  |  |
|  | Recognize and interpret patterns in data |  |  |  |  |
| 6-8 INQD | Identify manipulated, responding and controlled variables. |  |  |  |  |
|  | Identify variables that are not controlled and explain how they affect results. |  |  |  |  |
| 6-8 INQF | Write results and conclusions |  |  |  |  |
| 6-8 INQG | Prepare a written report of an investigation |  |  |  |  |
|  | Identify limitations of the investigation |  |  |  |  |
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