**Motion**

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| **Big Idea** | **Emerging** | **Developing** | **Proficient** | **Extending** |
| The motion of objects depends on their properties | Explores the different motions of objects | Demonstrates, measures, and illustrates the movement of objects using charts or pictographs | Analyzes the relationship between motion and properties of objects (e.g. round things roll) | Designs objects to move in a particular way |
| Forces influence the motion of an object | Names objects that push or pull | Defines force as something that moves objects | Measures and analyzes the effects of forces on different materials and shapes | Compares the degree of force involved in particular tools, objects, and actions |
| Defines force as something that pushes or pulls | Distinguishes (classifies) gravity, magnetism, and static electricity forces | Examines examples of the existence and use of gravity, magnetism, and static electricity in their environment | Evaluates the influence of gravity, magnetism, and static electricity in their environment, and on themselves |
| Newton’s three laws of motion describe the relationship between force and motion | Describes basic forces (push/pull) that influence motion | Describes Newton’s Three Laws of Motion | Analyzes patterns in data exploring physical activity, critiques secondary sources and draws conclusions related to Newton’s laws | Makes connections between Newton’s laws and phenomena in their local environment and physical activity |