

**Science
Unit 1: Motion**

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| Essential Understandings | <ul style="list-style-type: none"> ▪ Objects can move in a variety of ways. |
| Essential Questions | <ul style="list-style-type: none"> ▪ How can objects move? ▪ How can you change the way objects move? |
| Essential Knowledge | <ul style="list-style-type: none"> ▪ An object can move in a variety of ways (e.g., backward, forward, fast, slow, bounce, roll, up, down, etc.). ▪ The motion of an object can be changed. |
| Vocabulary | <ul style="list-style-type: none"> ▪ <u>Terms:</u> <ul style="list-style-type: none"> ○ forward, backward, straight, push, pull, slow, fast, zigzag, up, down, left, right, bounce, slide, roll, smooth, bumpy, drag, observe |
| Essential Skills | <ul style="list-style-type: none"> ▪ Identify different ways an object can move. ▪ Recognize that the motion of an object can be changed. |
| Related Maine Learning Results | <p><u>Science</u> D. The Physical Setting D4. Force and Motion Students describe how objects move in different ways. a. Describe different ways things move and what it takes to start objects moving, keep objects moving, or stop objects.</p> |
| Sample Lessons And Activities | <ul style="list-style-type: none"> ▪ Marble maze. ▪ Blocks and cars. (Scientific Inquiry) ▪ Blowing through a straw to move objects on a rough or smooth surface. |
| Sample Classroom Assessment Methods | <ul style="list-style-type: none"> ▪ “Does it roll?” Activity |

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| <p>Sample Resources</p> | <ul style="list-style-type: none">▪ <u>Publications:</u><ul style="list-style-type: none">○ <u>The Ball Book</u> - Margaret Hillert○ <u>Curious George and the Dump Truck</u> - E. Rey○ <u>Freight Train</u> - Donald Crews○ <u>On Wheels</u> - Huck Scarry○ <u>School Bus</u> - Donald Crews○ <u>Wheel Away</u> - Dayle Ann Dodds○ <u>The Wheels on The Bus</u> - Maryann Kovalski○ <u>Wheels, Wheels, Wheels</u> |
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