

4th Grade

Motion Chapter 2 (pgs 46 - 77)

Performance Expectations

Use evidence to construct an explanation relating the speed of an object to the energy of that object.

Make observations to provide evidence that energy can be transferred from place to place by sound, light, heat and electric currents.

Ask questions and predict outcomes about the changes in energy that occur when objects collide.

Motion Chapter 2 (pgs 46 - 77)

Effort Credit

Vocabulary Smart Cards (6)

At-Home Lab: "On a Roll" WS sent home to parents (pg 64)

Lightning Lab - pg 59

Investigate "Maglev Trains" - Present information to the class

Culture Introduction - Present Info/Hands-on Information about Japan

Day 1	Inquiry - Try It! "How can you measure motion?" (pg 48) Hand Out Materials, let students go in pairs, Complete pg 48 Meanwhile, students will look up definitions to KEYWORDS from "Hikaru's Toy Troubles"
Day 2 & 3	STEM Activity - "Let's Glide Away" (pgs 50 - 53) STEM Activity - "Design a Maglev System" from Hikaru's Toy Troubles Read prompt & plans together "Know vs Need to Know" Q&A Divide class into 2 members per group Students should work together in their groups to complete the STEM Activity. HW: All questions should be finished as homework if not complete by 2nd day.
Day 4	Students should SHARE what they learned about gliders (maglev) & modifications. ==>What about a foam glider?

	<p>LESSON 1 - What is motion?</p> <p>Read aloud pgs 54 - 58 completing questions individually, PAIR & SHARE</p>
Day 5	<p>Continue L1</p> <p>Read aloud pgs 59 - 61 completing questions individually</p> <p>HW: Lesson Check 1 (TE pg 61b)</p>
Day 6	<p>LESSON 2 - What is speed?</p> <p>Inquiry: Explore It! Pg 62</p> <p>Students should read "Hikaru's Toy Troubles"</p>
Day 7	<p>Read aloud pgs 62 - 67; students should work together to answer questions</p>
Day 8	<p>Inquiry - Investigate It! "How does friction affect motion?" Pgs 68 - 69</p>
Day 9	<p>WS: Lesson Check 2 (TE 67b)</p>
Day 10	<p>Teacher reads aloud "Hikaru's Toy Troubles"</p> <p>T-T, T-S, T-W Questions</p>
Day 11	<p>STEM: "SmartPlane" pg 70</p>
Day 12	<p>Flex Day</p> <p>Chapter 2: Benchmark Practice pg 76 - Individually & Check Together</p>
Day 13	<p>Review for Chapter 2 Test</p>
Day 14	<p>Chapter 2 Test</p>