

<p>Important Concepts</p> <p>Forces and Motion</p> <p>K-2 Level</p>	<p>Alaska Science Content Standard B4 Students develop an understanding of motions, forces, their characteristics and relationships, and natural forces and their effects.</p>
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There are no state grade level expectations (GLEs) for students in Grades K-2. Students at this age should be given a foundation for the concepts that they will need to master by grades 3 and 4, as follows:

The student demonstrates an understanding of motions, forces, their characteristics, relationships, and effects by:

[3] SB4.2 recognizing that objects can be moved without being touched (e.g., using magnets, falling objects, static electricity)

[4] SB4.1 simulating that changes in speed or direction of motion are caused by forces (**L**)

According to AAAS's Benchmarks for Science Literacy*, some of the things that students should know and understand by the end of the second grade are:

Things move in many different ways, such as straight, zigzag, round and round, back and forth, and fast and slow.

The way to change how something is moving is to give it a push or a pull.

Things that make sound vibrate.

Things near the earth fall to the ground unless something holds them up.

Magnets can be used to make some things move without being touched.

*Project 2061, American Association for the Advancement of Science, Benchmarks for Science Literacy. New York: Oxford University Press, 1993.