

Motion and Design

Using K'NEX Building Sets to Teach Science

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1. Simple Machines (K'NEX Simple Machines Unit)

- a. Lever
- b. Wedge
- c. Inclined plane
- d. Screw
- e. Wheel and axle
- f. Pulley
- g. Gears

2. Bridges (K'NEX Website for Education)

- a. Arches and triangles
- b. Suspension
- c. Trusses
- d. load

3. Vehicles (Former "Operation Science" Unit)

- a. Newton's Laws of Motion
- b. Forces
- c. Friction
- d. Energy
- e. Design

Resources and Bibliography:

Brewster, Joy. Machines New York: Newbridge, 2003.

National Academy of Science. Motion and Design NSRC/STC, Burlington: Carolina Biological Supply Company 1997.

<http://www.knex.com/knex-education> (September and October 2014)