

LINCOLN PUBLIC SCHOOLS
Science Learning Expectations: Grade K

Standard:

Physical Science

Mass Standard

Position &
Motion of
Objects

Recognize that
under some
conditions
objects can be
balanced.

Big Ideas

- Physical laws determine balance.

Key Outcomes

- Students will demonstrate an understanding that **balance occurs when weight is distributed equally** by balancing an object, recording results, and explaining why balance was achieved.

Essential Knowledge and Skills

Students will be able to:

- How to use scientific inquiry* to access, explore and explain their understanding of core knowledge
- When something is balanced it is not falling over and considered stable.
- All objects have a center of gravity
- Weight, position, shape and force affects balance
- The smaller the base of support, the harder it is to balance
- There is more than one way to balance an object
- Counter-weights can be used to balance objects by changing the center of gravity
- An object is balanced only if a base supports its center of gravity; if the objects mass is not centered over its base, it will fall over

* Scientific Inquiry Standards are embedded in each unit of study