

Corresponding State Standards:

GLE 0107.Inq.2 Ask questions, make logical predictions, plan investigations, and represent data.

GLE 0107.Inq.3 Explain the data from an investigation.

0007.Inq.2 Communicate interest in simple phenomena and plan for simple investigations.

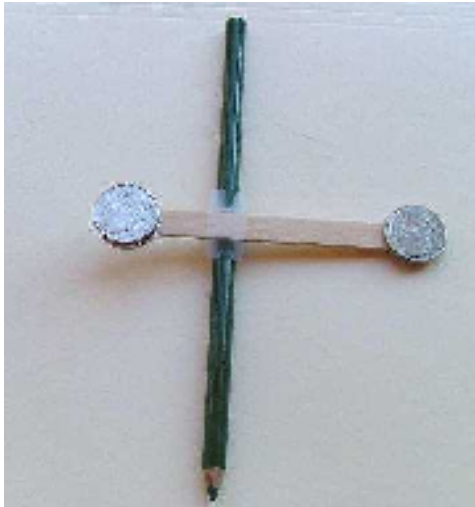
0007.Inq.3 Communicate understanding of simple data using age-appropriate vocabulary.

GLE 0007.T/E.2 Apply engineering design and creative thinking to solve practical problems.

0007.T/E.1 Explain how simple tools are used to extend the senses, make life easier, and solve everyday problems.

0007.T/E.3 Use tools to measure materials and construct simple products.

The Lever experiment



This **first grade science fair project** demonstrates the function of a lever. You will need a round pencil, an ice cream stick, a piece of tape, and some small coins like nickels. A craft stick works well also in place of the ice cream stick.

Place a flat side of the stick across the center of the pencil. At first try placing about 3/4 of the stick across and then tape it in place. The pencil should roll easily when placed on a flat surface allowing the stick to rock up and down.

I placed three nickels at the end of the short piece of the long end it lifted the three nickels. It will depend on how much length of the stick you placed across the pencil whether it lifts three nickels by the way.

If you changed the position of the stick on the pencil making one side even shorter it will lift more weight. If you make it longer it will lift less. If it's perfectly centered across the pencil it will be balanced when the same weight is applied to each side.

You can do this experiment using a board across a brick or across a small round piece of wood. You may be able to lift an adult two or three times your weight.