

Lesson: Newton's Third Law – Student Activity #3

BALANCING NAILS

Materials:

1 base
12 nails
a flat surface

Safety Rules:

The items included should be used only as intended. Do not place items near your face, or use them in anyway other than following the directions.

balance – an equal distribution of weight

gravity – the force that causes things to fall toward the Earth

center of gravity – the point at which the entire weight of something can be balanced

stability – firmly established and unlikely to change

symmetrical – having sides or halves that are the same

Directions:

1. Firmly place one nail into the center hole on the base. (head of the nail facing upwards)
2. Place the base on a flat surface.
3. Balance the remaining nails on the head of the first nail. They may only touch the nail in the center hole.



Only the supplied materials can be used (no tape, string, glue, etc.).
The supplied materials cannot be changed in any way.