

Puzzling Nails

S Science

Force moves objects, nothing moves without a force. Balanced forces are called an equilibrium. There is no movement with an equilibrium. The balance point of an object is its center of gravity.

T Technology

The playground teeter-totter uses equilibrium, center of gravity, and forces to balance and move you as you play. Other playground objects apply these three science concepts to perform a useful task.

E Engineering

Engineers modify, change, move, adapt, and use center of gravity, forces, and equilibrium to improve the movement of objects like cars, sports equipment, and household objects. Even those playground objects can be improved by engineers.

M Mathematics

Measure the distances in meters between the pivot point and two students on a teeter-totter. Measure their masses in kilograms. Multiply the distance each student is from the pivot point by their mass. The values are the same.

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