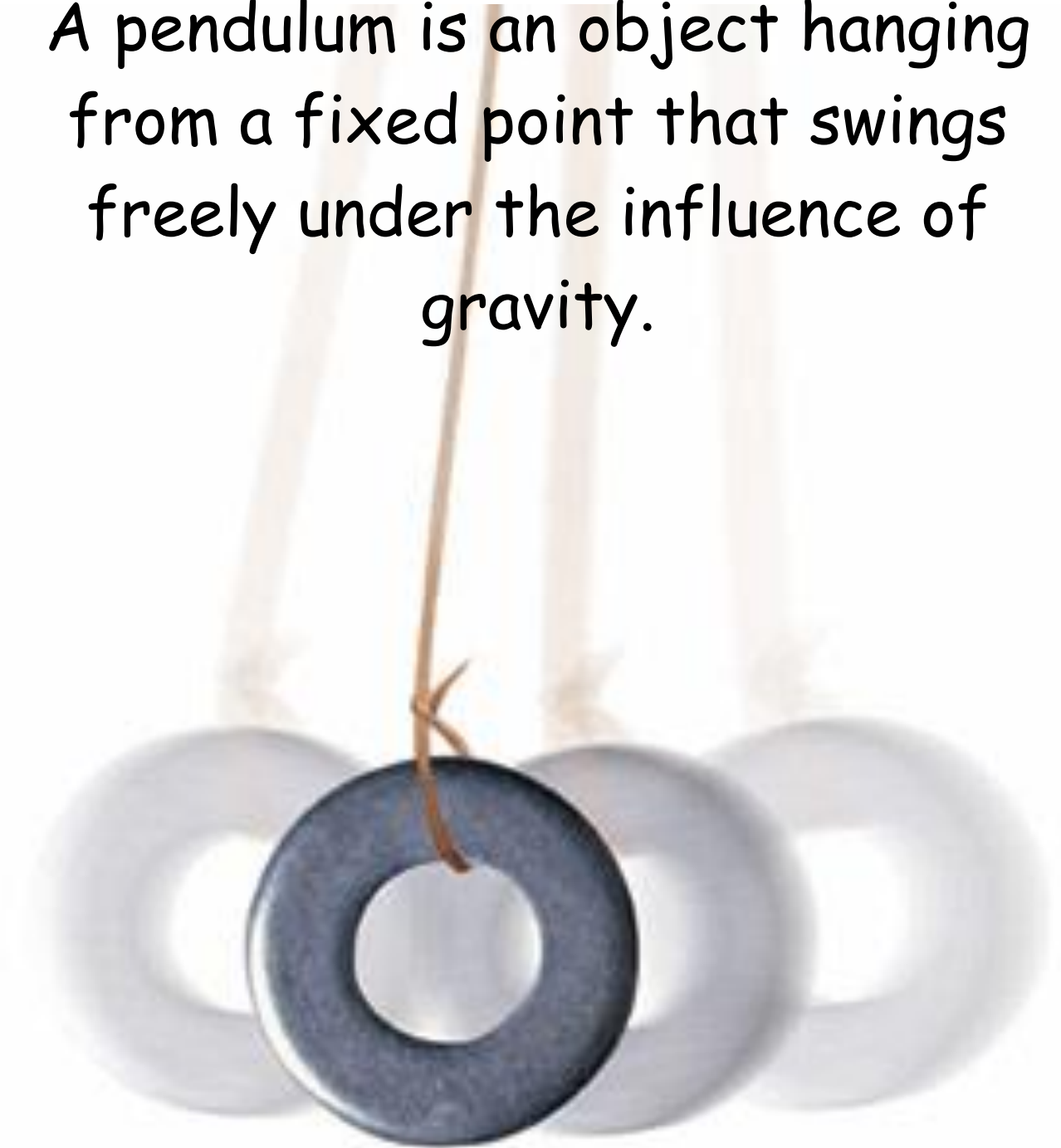


Pendulum

A pendulum is an object hanging from a fixed point that swings freely under the influence of gravity.



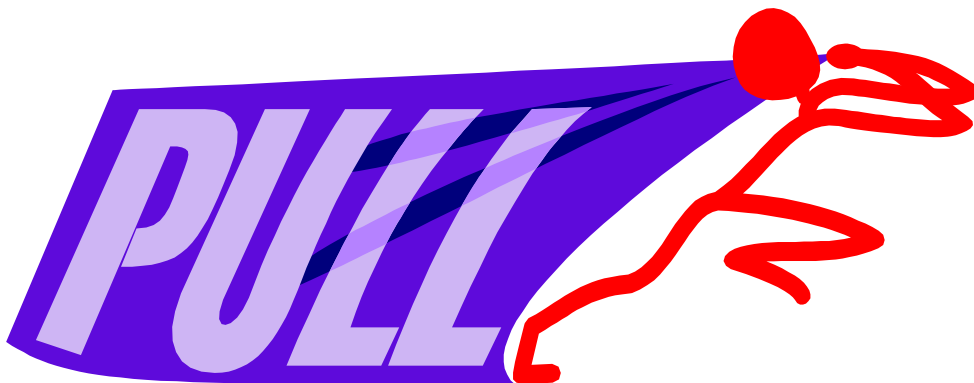
Force

An unbalanced force is necessary for any changes in motion to occur.

A force is a...

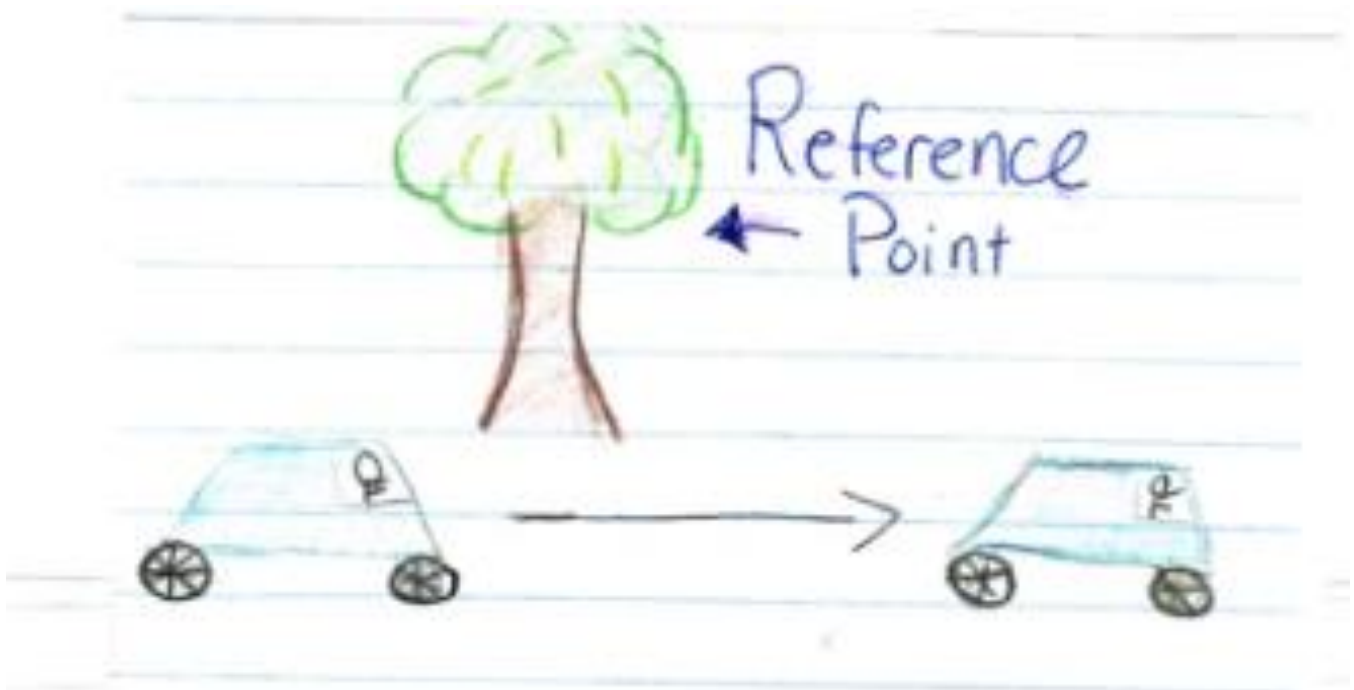


Or a...



Frame of Reference or Reference Point

A place or object, assumed to be stationary (at rest), used to compare the motion of another object.



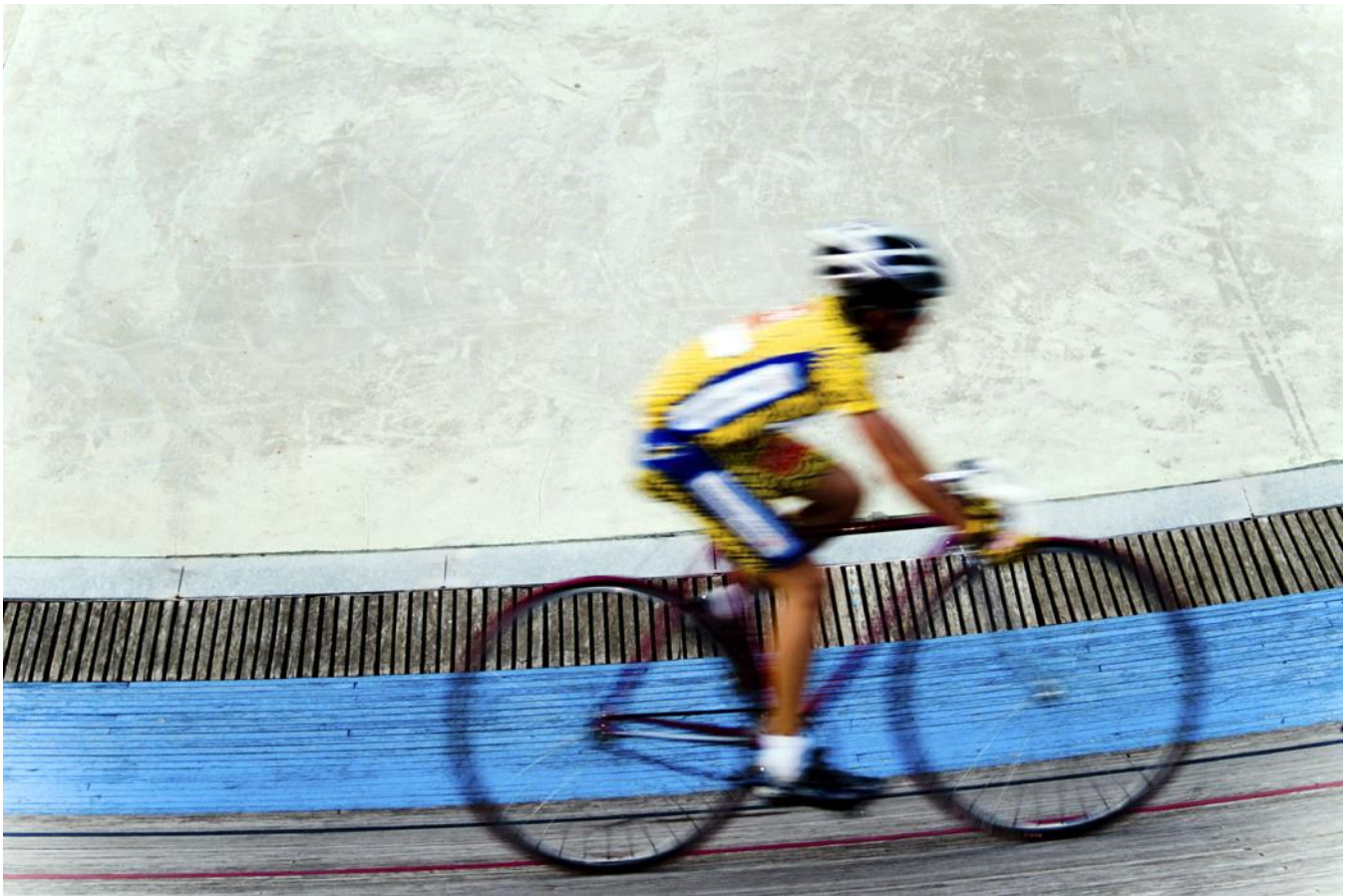
Uniform Motion

Equal distances traveled in equal times (with constant speed).



Variable Motion

Different distances traveled in equal times (with changing speed).



Periodic Motion

Any motion that repeats itself in a regular cycle.

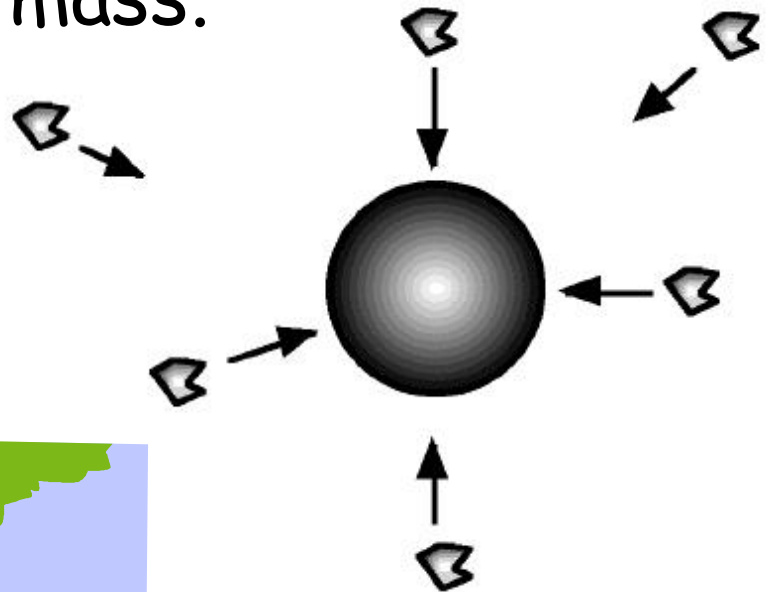


$Speed = Distance \div Time$



Gravity

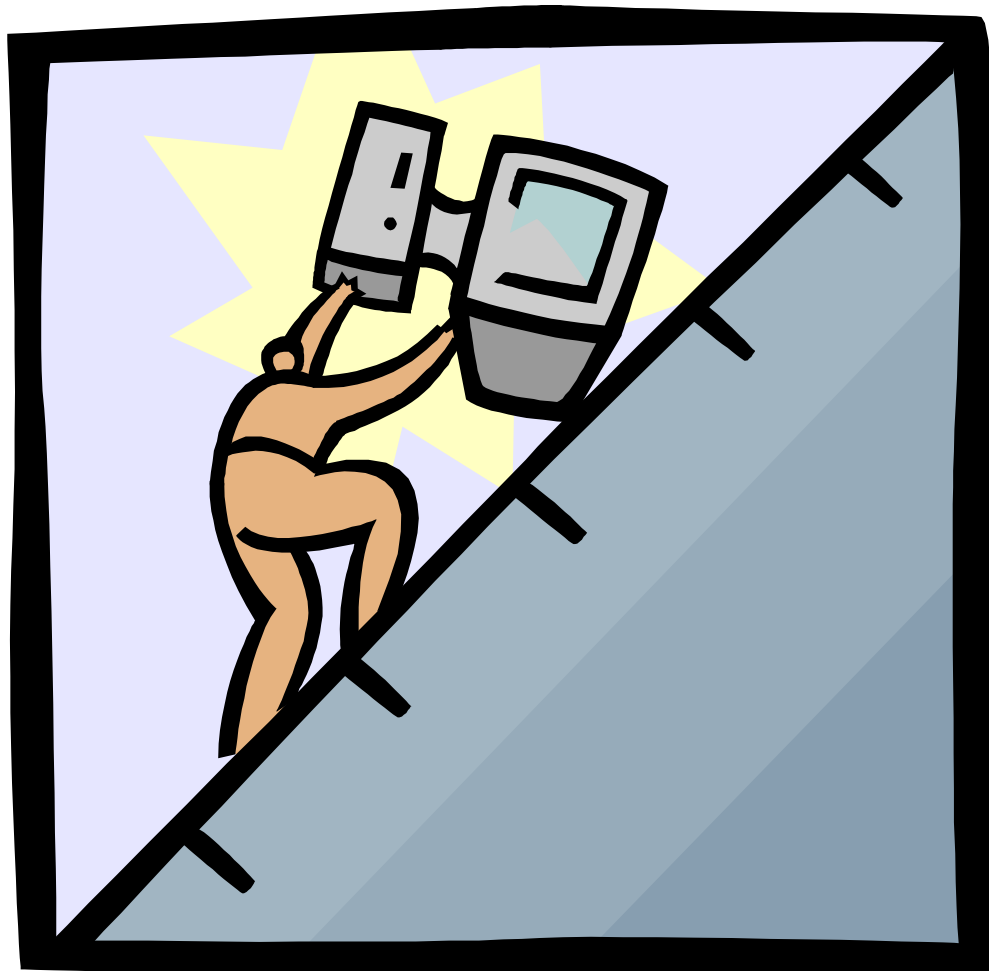
The force that all objects exert on each other because of their mass.



The force that pulls objects towards the center of Earth.

Friction

A force that opposes the motion of an object moving past another when the surfaces rub against each other.

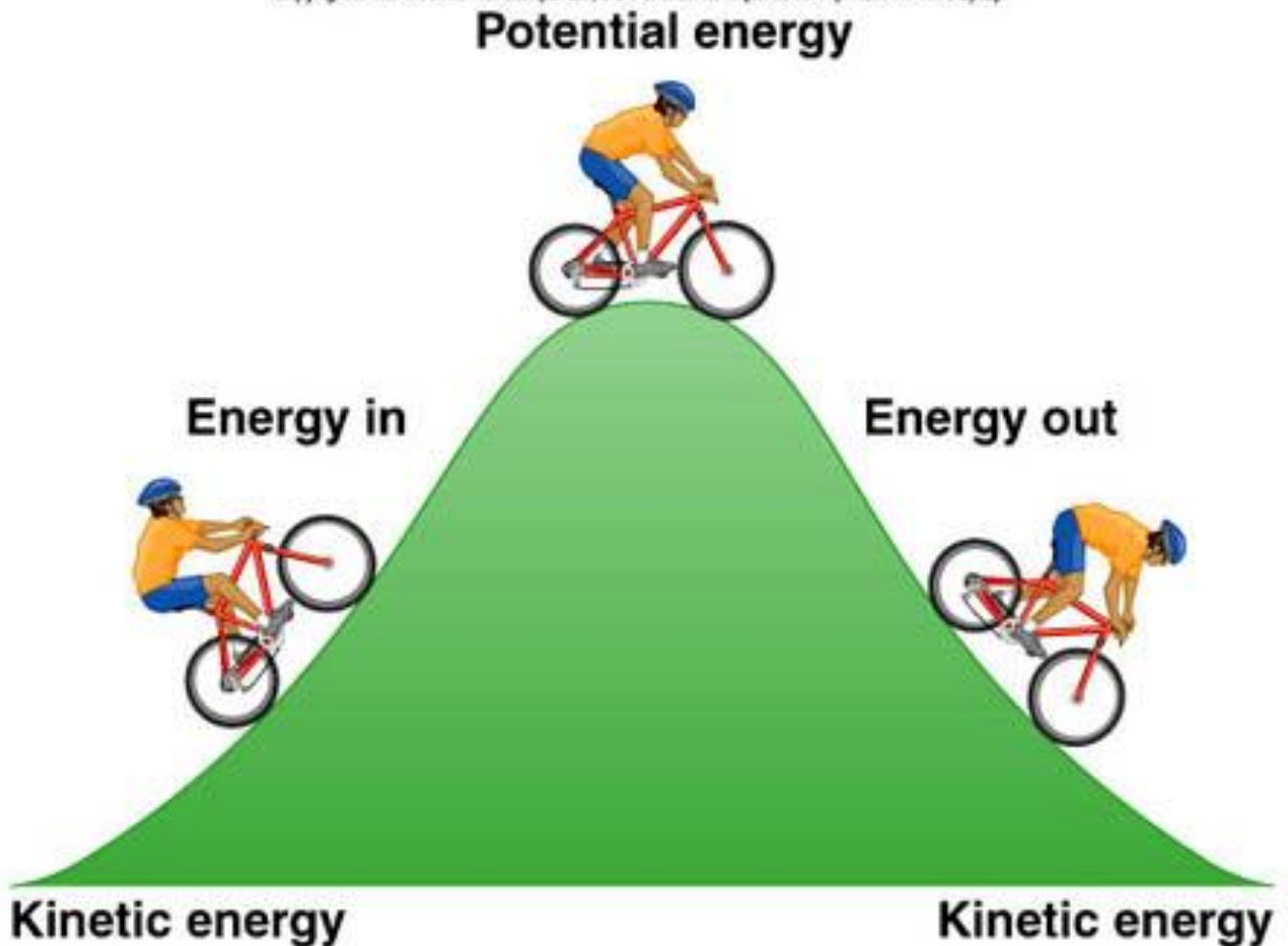


States of Energy

Potential Energy - Stored energy

Kinetic Energy - Energy of motion

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Nonrenewable Resource

cannot be easily or
quickly replaced.

Renewable Resource

can be easily, naturally,
and more quickly
replaced.

