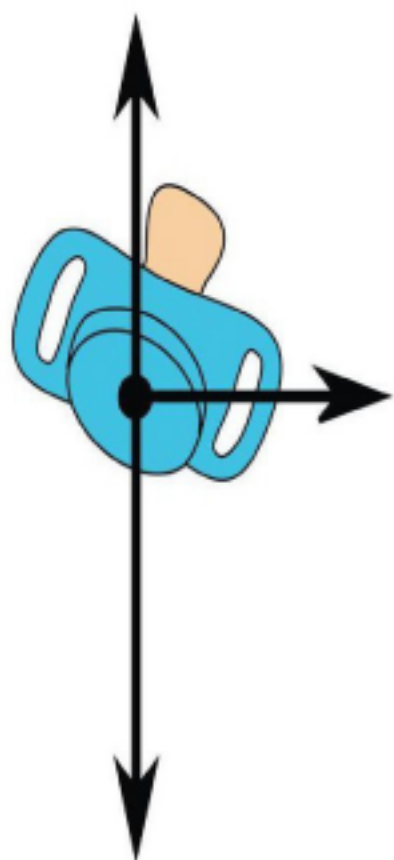


Newtonian Physics for Babies



by Chris Ferrie

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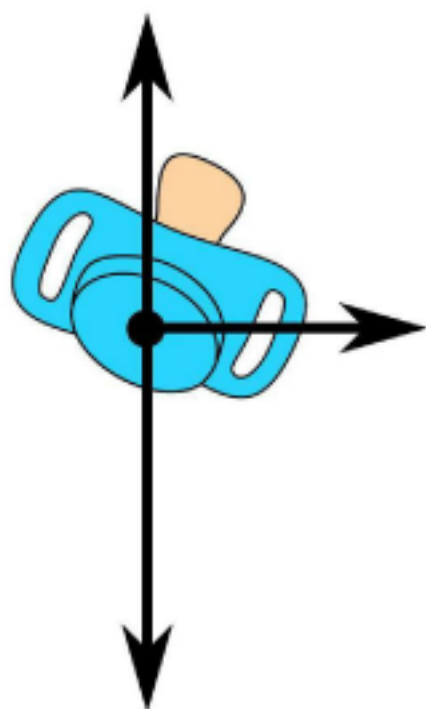
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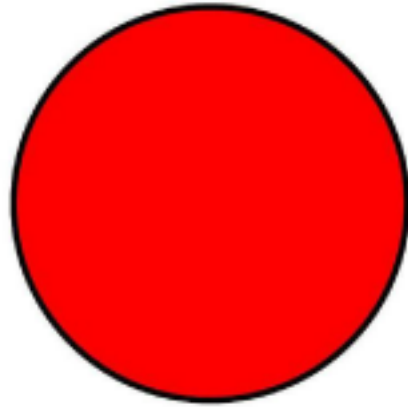
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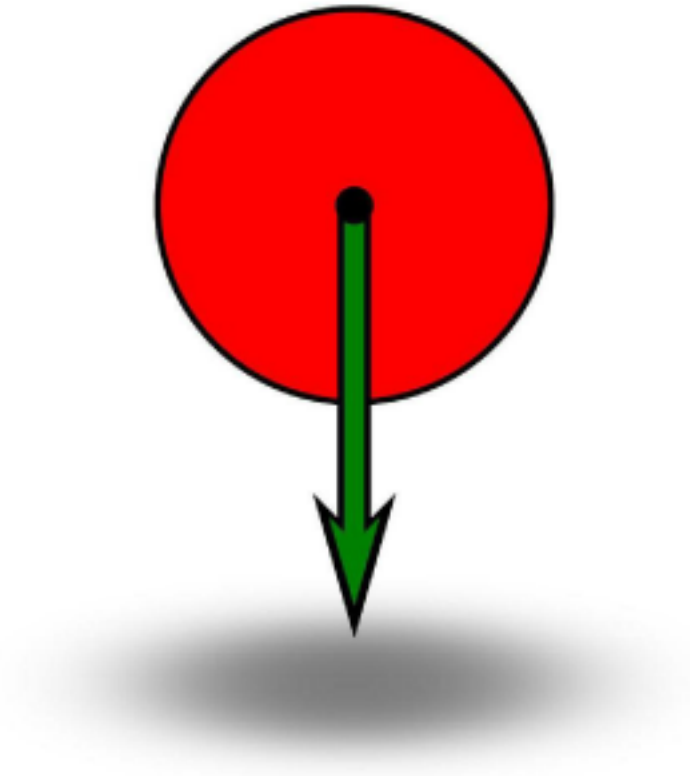
Newtonian Physics for Babies 🎧



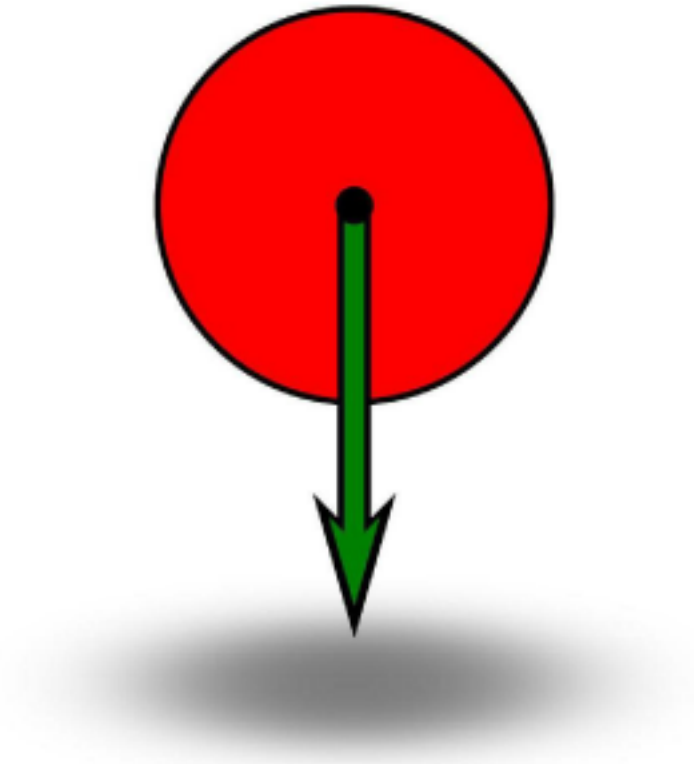
by Chris Ferrie



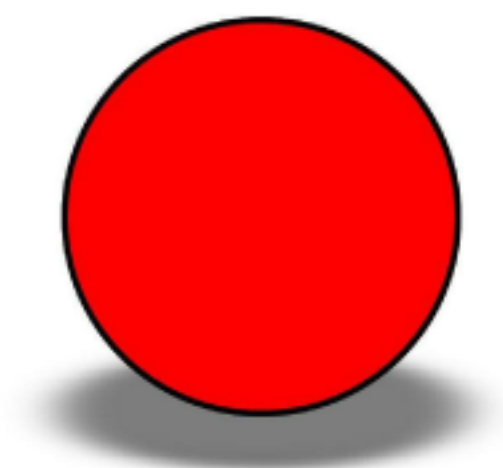
This is a ball. 🗣️



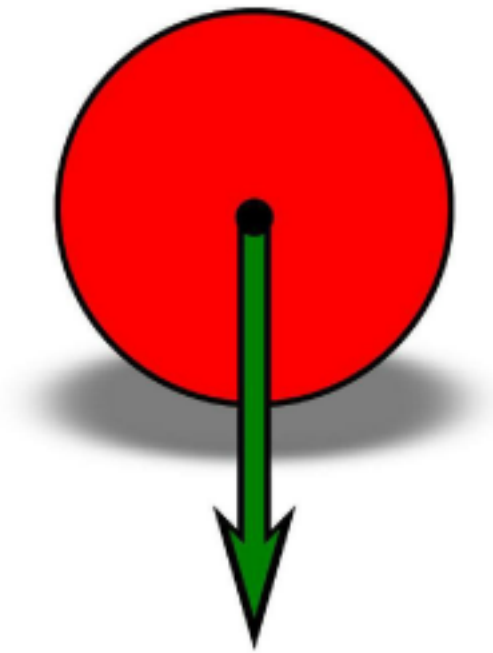
**This ball feels the
force of gravity.**



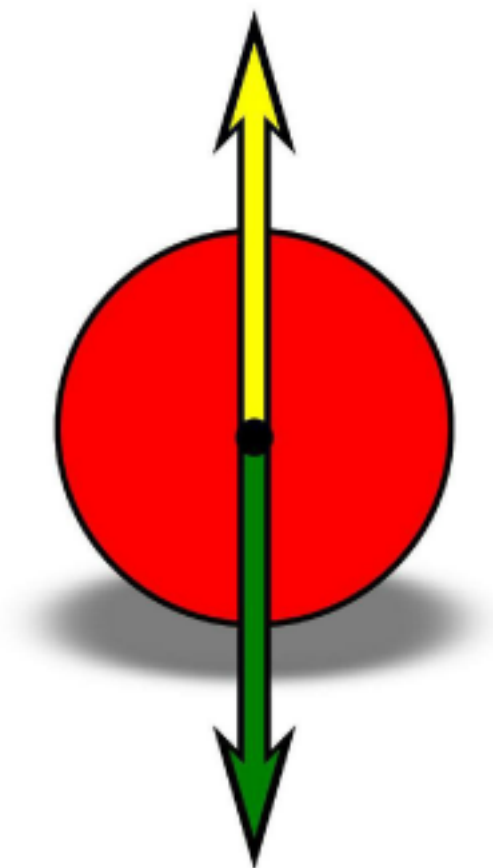
**The force of gravity
pulls the ball down.**



**This ball is on the
ground. 🗣️**



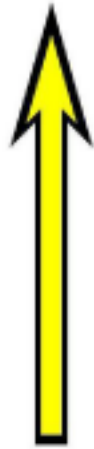
**It still feels the
force of gravity.**



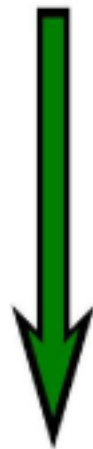
**But it also feels the
force of the ground.**



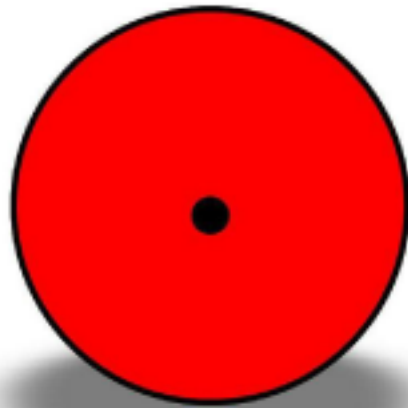
The force of the ground



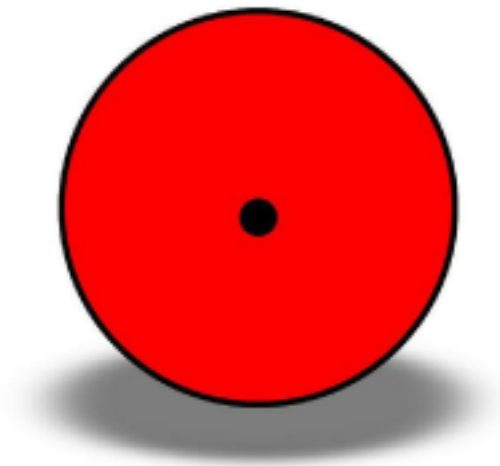
equals



the force of gravity.



**The net force on
the ball is zero.**



**It does not change
its motion. 🎵**

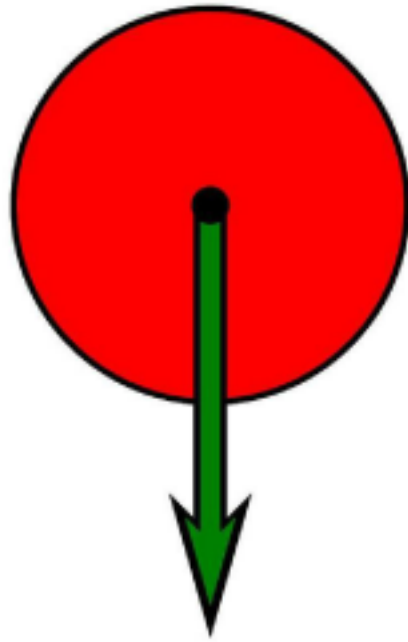


Newton's first law

1

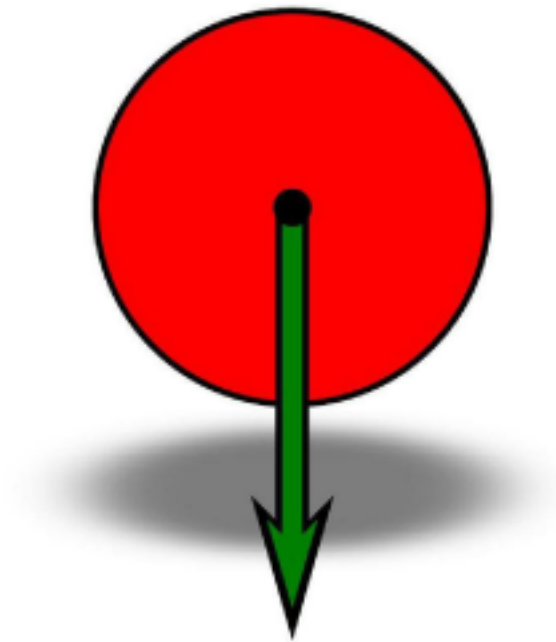


If an object has zero net force,
it does not change its motion.

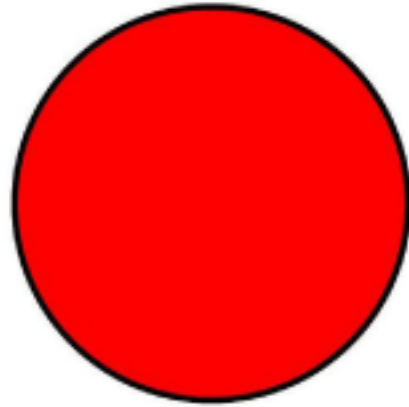


**This ball does have
a net force. 🎤**

**It does change its
motion. 🎧**

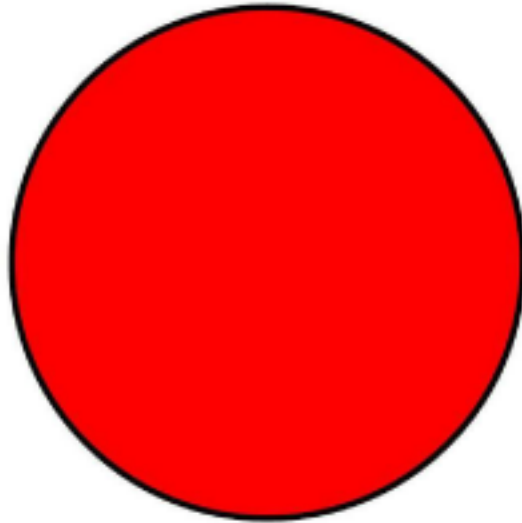


It accelerates. 🎧

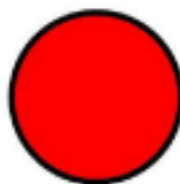


This ball has mass.

More mass.



Less mass.



Newton's second law



2



The net force is equal to mass times acceleration.

Force

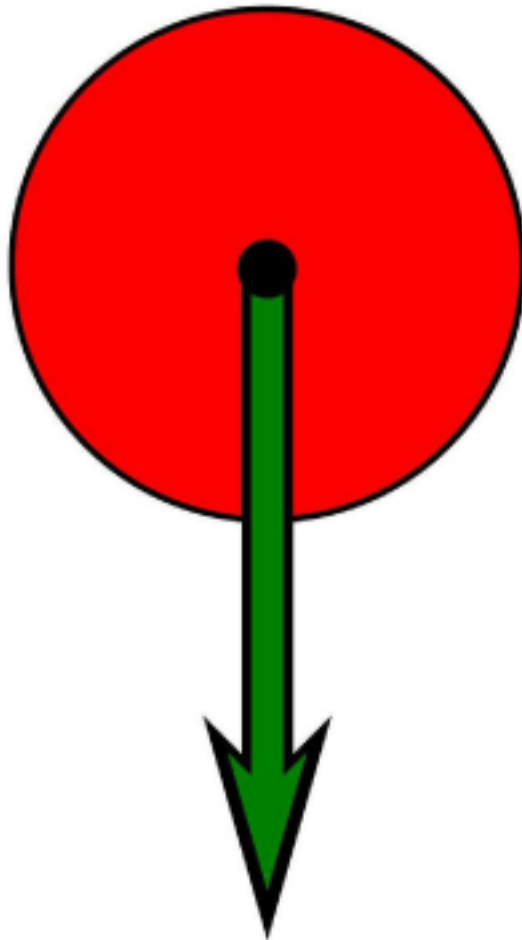
=

mass X acceleration



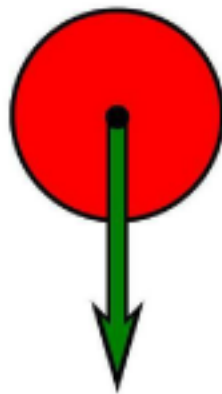
The net **force** is equal to
mass times acceleration.

More mass, 🗣️



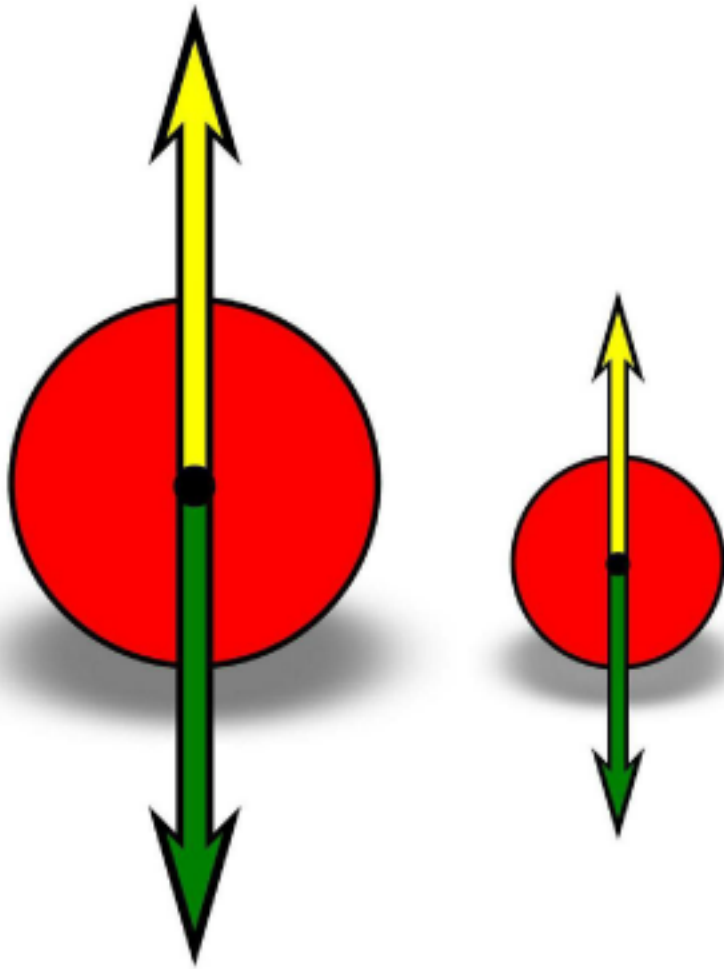
more force.

Less mass, 🗣️



less force.

- **The force of the ground always equals**



the force of gravity.

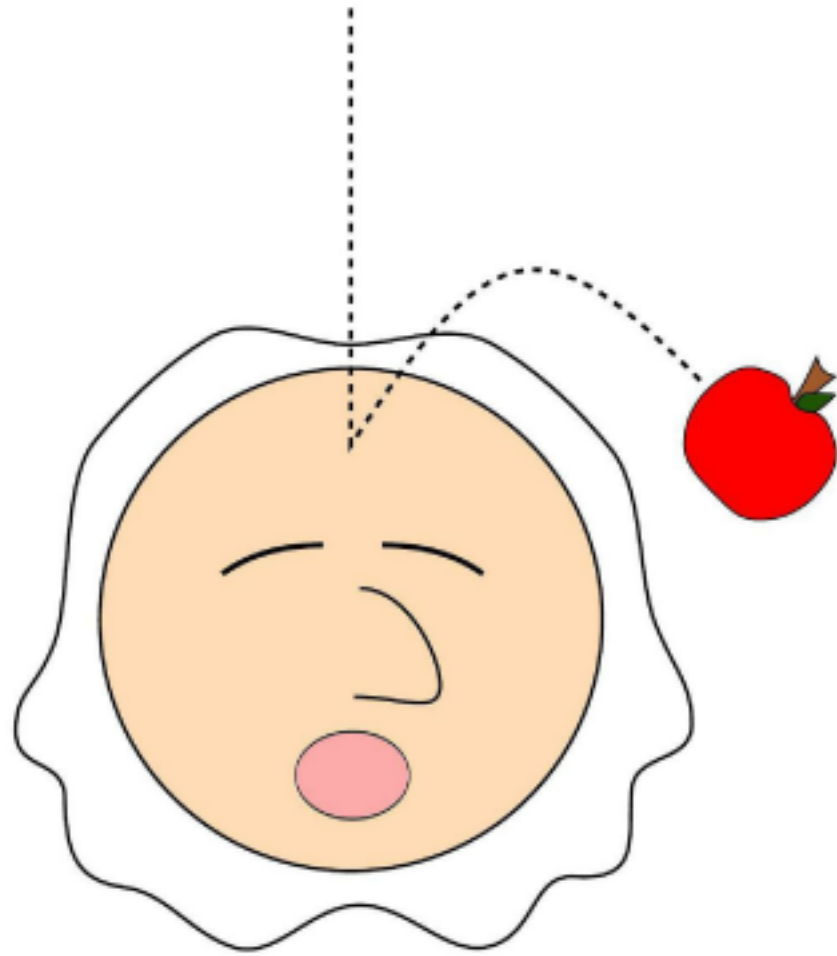
Newton's third law



3

For every force, there is an equal force in the opposite direction.





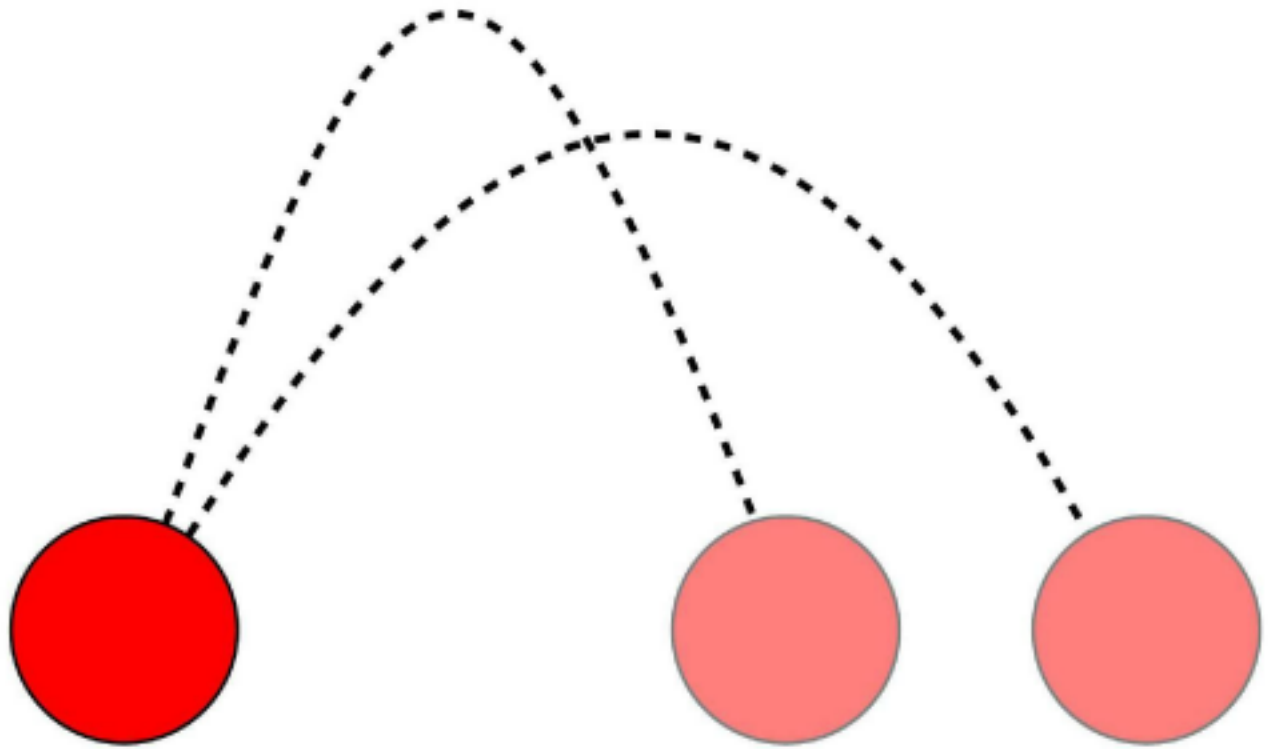
**Now you know
Newton's laws.**



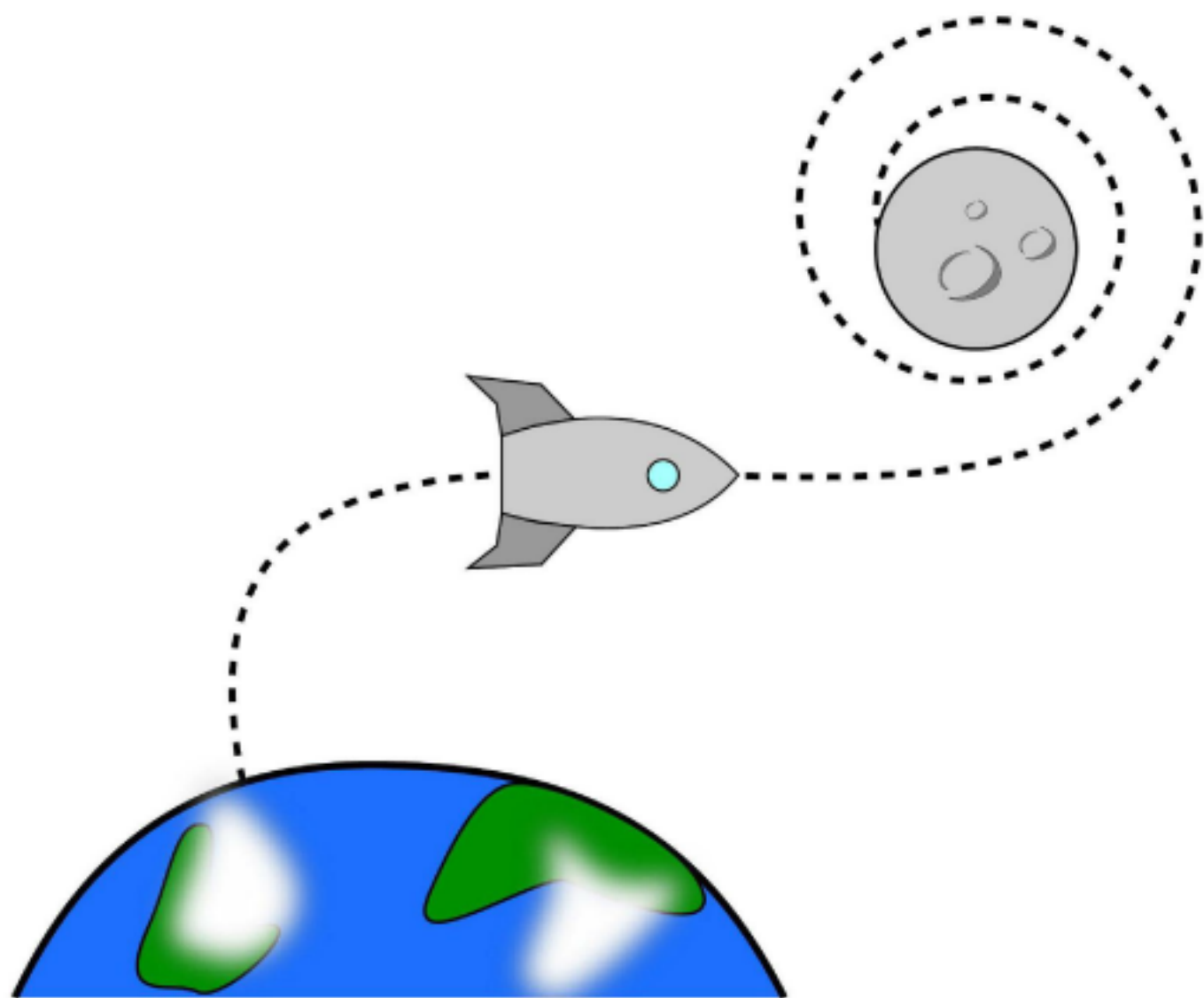
**With Newton's
three laws, 🎤**

1 2 3

**you can do many
cool things!**



**You can predict where
your ball will land. 🎯**



**Or even go to
the moon. 🎧**