



**Motion** is a change in position.

- Up
- Down
- Zigzag
- Circular
- Forward
- Backwards
- Over
- Under
- Around
- Through
- Between



Force and  
Motion



**Motion could be measured in speed ( fast, slow)  
distance ( far or near)  
time ( hr, min, days)**

**Objects will not have motion without some form of force**

**Newton's Law of Motion**

An object in motion stays in motion.

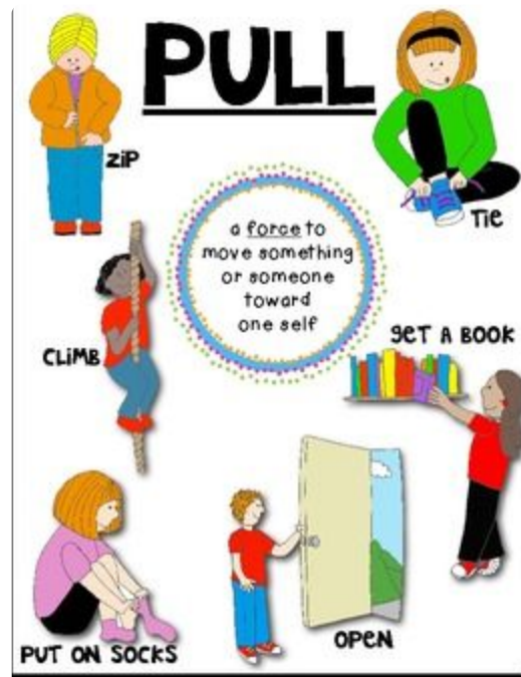
An object at rest stays at rest.

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pushes and pulls - forces and motion

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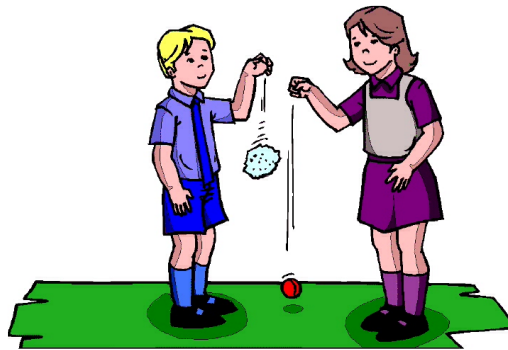
Using force to  
move objects



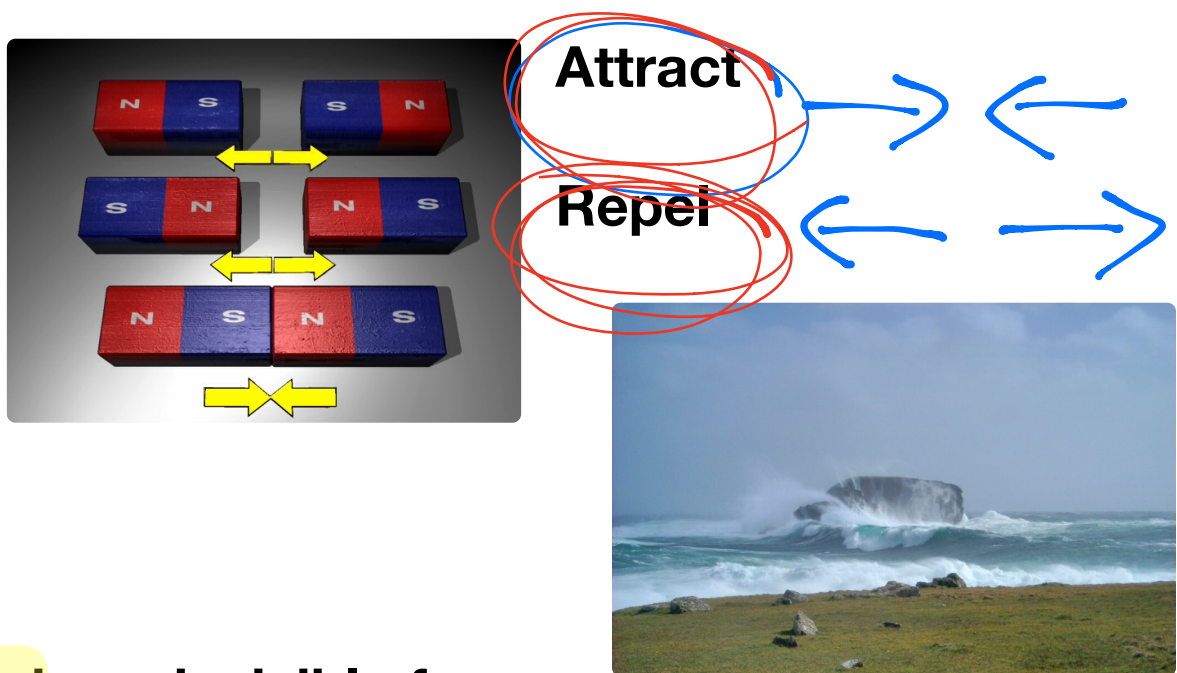
**What are forces?**

**Anything that pushes and pulls is a force.**

**Gravity** is the force that pulls things towards the earth.



**Magnetism** is a force that pushes and pull.



**Air** is an invisible force  
What can cause object in

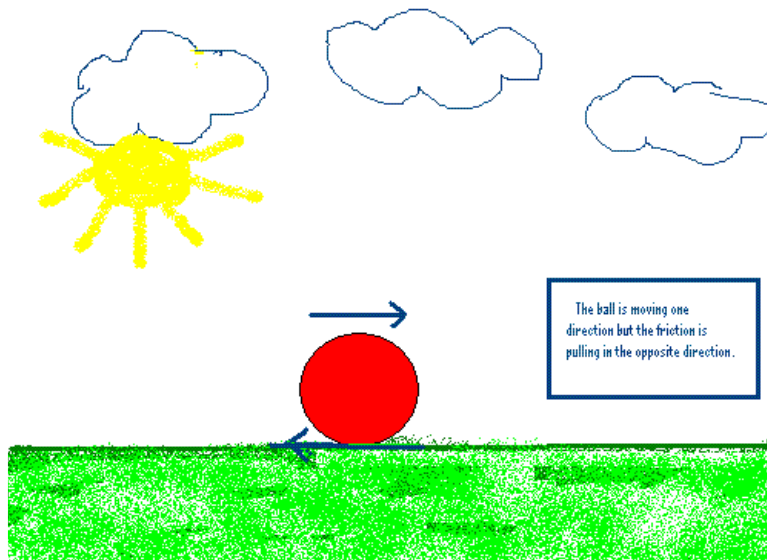
Air pushing the water to create waves.

motion to stop?

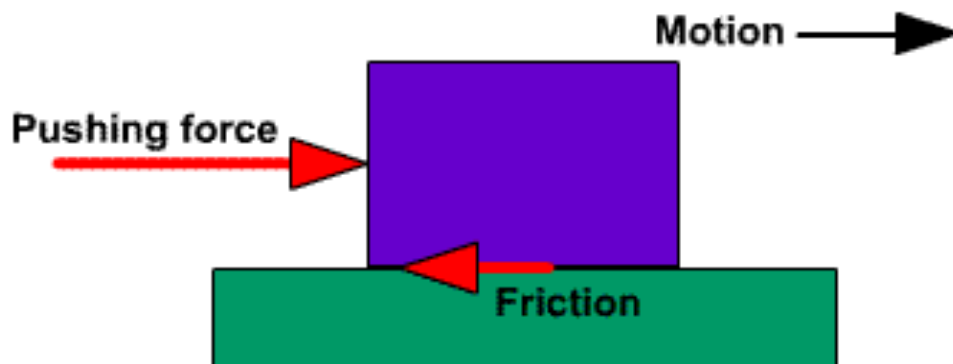
## FRICTION

An object in motion will stop when there is Friction.

Friction is a force between two surfaces that are sliding across each other.



More friction less motion



# Force

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**A push or pull in a particular direction.**

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# Motion

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**A change in position.**

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# Friction

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**A force between two surfaces that are sliding or trying to slide across each other.**

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Push

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**Using force to move  
an object away  
from you.**

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Pull

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**Using force to move  
an object toward  
you.**

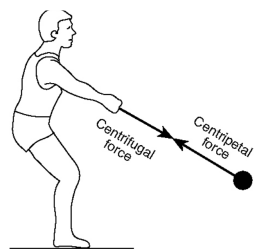
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Gravity

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**The force that  
pulls objects  
together.**

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# Centripetal force