

Unit F - Chapter 1: Notes

- Gravity, friction and magnetism are examples of a force.
- The motion of an object changes only when a force has acted on it. ex. an object moves, stops moving or changes direction.
- When a person is roller blading and drags their heel brake on the ground, the person is using friction to slow down.
- Magnets have a force that acts on objects without touching them.
- If a magnet can hold a piece of paper on the refrigerator, the forces acting on the magnet must be balanced because the object's motion (the magnet) is not moving.
- You haven't done any work if you push on an object and it doesn't move.
- If you lift a 15 newton weight 5 meters off the floor you have done 75 joules of work. $15 \times 5 = 75$
- Most people use compound machines. ex. shovel- a wedge at the end of a lever; pencil sharpener- has a wheel and axle that turns a set of wedges that cut.