

Common Forces

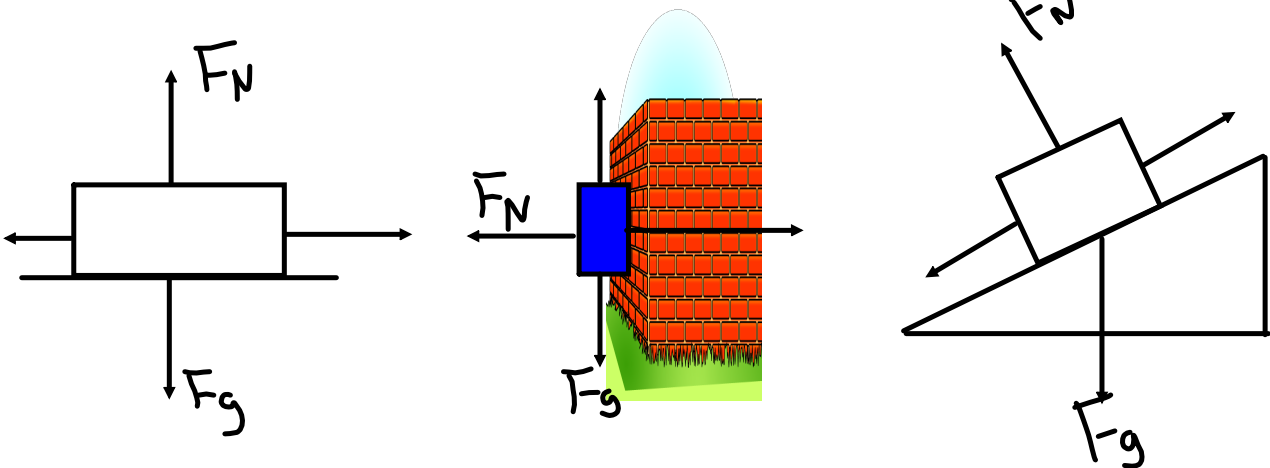
F_a : an *applied* force
- a push or pull you exert on an object

$$F_g = mg$$

F_N : the *normal* force
- a force that acts perpendicular to the surface on which an object rests

$$F_g = G \frac{M_1 M_2}{r^2} = M_2 g$$

NOTE: "normal" means perpendicular



F_T : *tension*

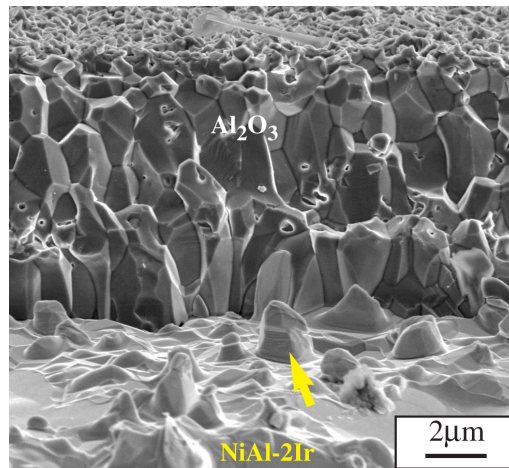
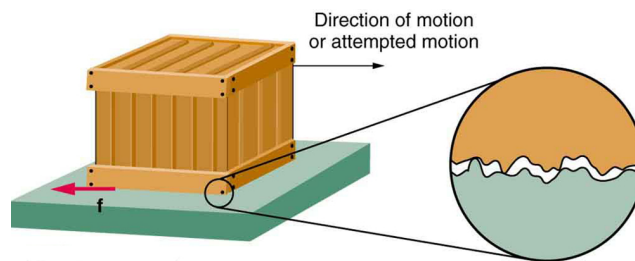
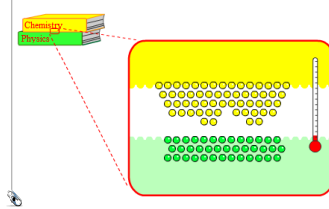
- the force that acts along a rope, wire, string, etc.

F_e : *elastic*

- the force that an elastic pulls with (dependant on distance stretched or compressed).

The Force of Friction

1. What is friction?
2. What causes it?



It is very important to have a detailed understanding of friction as all motion is affected by some type of friction (surface, fluid, air, etc).



Attachments

forces-and-motion-basics_all.jar

forces-1d_all.jar

friction_en.jar