Newton's 2nd Law:

· Newton's 1st: Overall (net) forces cause acceleration

· Newton's 2nd: Overall Pares will Cause an object to accelerate in the direction of the net force. Objects that have more mass will accelerate less for a given net force. (Things that are light are passer to accelerate) Newton's 2nd Law:

Net force on = Object's Object's acceleration

Newton  $= m \cdot \alpha$ Newton  $= 2 \rightarrow m/s^2$ (N)  $= 2 \rightarrow m/s^2$ (N)  $= 2 \rightarrow m/s^2$ (N)  $= 2 \rightarrow m/s^2$ 

If You Know Table for F=m.a			
If you know	Yw can find	By Using	Units
M,O	Fret	Fret=M.a	N + direction
Fret, M	<b>^</b>	$Q = \frac{F_{net}}{M}$	M 52 + direction
Fretia	<b>W</b> \	$M = \frac{F_{net}}{\alpha}$	kg
			•

Snail pushed with an overall force of 6.2 N. It has a mass of 0.2 kg. What is its acceleration?

- 1) Fret = 6.2 N, m= 0.2 kg
- (2) a
- 3)  $\alpha = \frac{F_{net}}{m}$
- $9 \quad \alpha = \frac{62N}{0.2 \text{ kg}} = 31$
- 5 [ a = 31 m/sa up |

