

position - location of an object in RELATION
to another object

Reference point

motion - change in position includes
speed and direction

speed - how the position changes
over a period of time.

* calculation

$$\frac{D}{T} = \text{speed} \quad \text{ex. distance 70 miles} \\ \text{time} = 2 \text{ hours}$$

$$D = 48 \text{ miles} \quad T = 2 \text{ hrs}$$

$$\frac{70}{2} = 35 \text{ mph } m/h$$

distance $\div$ time = speed

velocity - speed of an object in a
certain direction

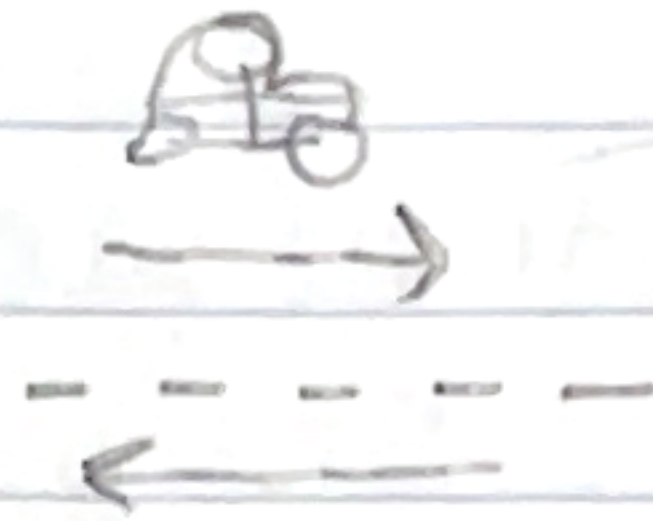
any chg - chgs velocity

acceleration - any change in velocity
* any change in speed or direction

force - push or pull on an object

gravity - natural force that pushes us down to Earth.

friction - force that acts against the direction of motion



Gravity + Friction = most powerful natural forces on Earth

Unit 9 Force Cont.

4/8/25

Hypothesis: I believe ☐
will have better velocity because

