Motion - 1 - Vocabulary M9 Sep T 10 Sup Vacabulary - Position - where it is + Units are meters (m) + Examples · Nose > Fingers is Im · JC > I kea (KC) is 200 km (time position) > just like a point in Math + Graph Constant Position - Velocity - speed & direction - How fast & which way + units are meters per second Ms + Examples - Walking 2 / Ms, Fastest Runner 2 10 m/s + Egn. · Change In Position - AP (Change In = A) Change in time Positive from Position + Graphs Aposition negative / velocity > time - Acceleration - change in velocity ->/ Change in speed + Units are (m/s2) maters/second2 + Examples are change in direction · Gravity is 10 M/s2 · Aug car = 4 M/s2 + Egn: Change in Valority - AV Traillan time A Postion + Graphs Acceleration

## Motion-2-Graph Matching

a Position Ph Description Constant distance From the sensor > time a Position Constant Speed away from the sensor. Stime Position Constant speed toward the school time More away Faster & Position faster ( positive acceleration) time Position Mak toward faster + (nigative acceleration) + Graph Matching - Each member match a graph using their body

Motion 3 - Sketching Motion A Position ( height) A bouncing ball. A Posttion A baseball thrown by a pitcher & hit faster by a batter. 1 Position - Football Snapped to QPS

- Wait for reciever

-trow

-trow

- Caught to avoid Somer End zone of

## Motion 4- Calculations

Acceleration - 
$$\frac{\Delta V}{\Delta t} = \frac{-3 \text{ M/s} - 0 \text{ M/s}}{1\text{ s} - 0\text{ s}} = \frac{-3 \text{ M/s}}{1\text{ s}} = \frac{$$



$$mc = \frac{100 \, \text{m}}{100} = 10 \, \text{m/s}$$