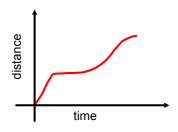
Graphs of Motion

distance - short for 'distance travelled'
speed - distance/time or the rate at which
distance increases

displacement - distance moved in a direction (usually shown with + or -)

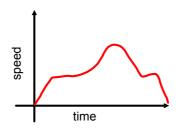
velocity - speed in a given direction.



gradient gives speed

graph cannot slope downwards - you cannot decrease the distance you have travelled

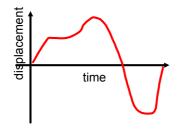
speed can't be negative



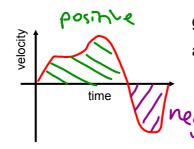
area under line gives distance travelled gradient gives acceleration

the graph can slope downwards, but

the graph can slope downwards, but cannot go below the x-axis



gradient gives you velocity



gradient gives you acceleration area gives you displacement