# THE ANATOMY OF A DISTANCE-TIME GRAPH

A STRAIGHT LINE MEANS ***CONSTANT SPEED***.

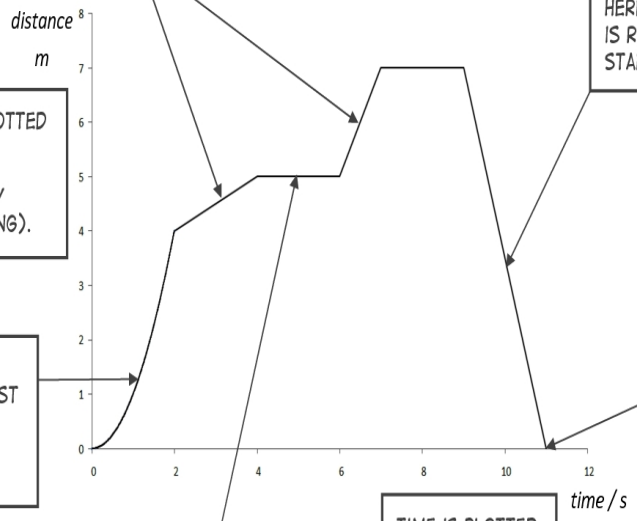
WE CAN FIND THE SPEED BY FINDING THE GRADIENT. A STEEPER LINE MEANS A FASTER SPEED.

A LINE SLOPING DOWN MEANS THE BODY IS ***COMING TOWARDS*** THE OBSERVER.

HERE, THAT MEANS IT IS RETURNING TO THE STARTING POINT.

DISTANCE IS PLOTTED ON THE Y AXIS.

(DISTANCE AWAY FROM SOMETHING).




HERE THE LINE IS GETTING STEEPER, SO THE BODY MUST BE SPEEDING UP.

IT IS ***ACCELERATING***.

THE BODY HAS ENDED AT DISTANCE ZERO, SO IT HAS RETURNED TO ITS STARTING POINT.

TIME IS PLOTTED ON THE X AXIS.

A HORIZONTAL LINE MEANS THE BODY IS ***STATIONARY***. IT IS NOT MOVING.

(THE GRADIENT IS ZERO).