Setting out work.

**CLEAR** setting out of work is **VITAL** at A level Physics. You **WILL** gain marks if you Follow this method. You will **LOSE** marks if you **DON’T**

1. Sometimes there are marks available for the correct method EVEN IF YOU GET THE ANSWER WRONG. If you show no workings you won’t get them
2. If you work is **CLEAR** the examiner can quickly assign method marks or can carry an error forward (ecf) if they can see it. If not they **WILL** get fed up and not look for the chance to give you marks.
3. Using the below method makes it possible to answer many questions **EVEN IF YOU DON’T UNDERSTAND THE QUESTION.**

**EXAMPLE**

A train enters a station at 22 m/s and accelerates at 5 m/s/s until reaching its maximum velocity of 48 m/s at the moment is enters the next station. Calculate the distance between the stations.

This example uses one of the equations for motion under constant acceleration, equations you will not meet until later on but we will introduce ourselves to them to highlight the process.

They all use some of the following terms

**Initial Velocity = u Final velocity =v Acceleration = a time= t Distance = s**

**S=ut + ½ at2 V2=u2 +2as V=u+at**

1. Identity the quantities you have and list them. (put an ? for the quantity you are being ask to find)
2. Identify which general equation contains all those terms
3. Rearrange the equation so it gives you the quantity you are being asked to find
4. Substitute the values
5. Calculate answer
6. Provide answer to similar sig fig as in question and underline (don’t forget the unit!)

Distance between Stations = \_\_\_\_\_\_\_\_\_\_\_\_\_