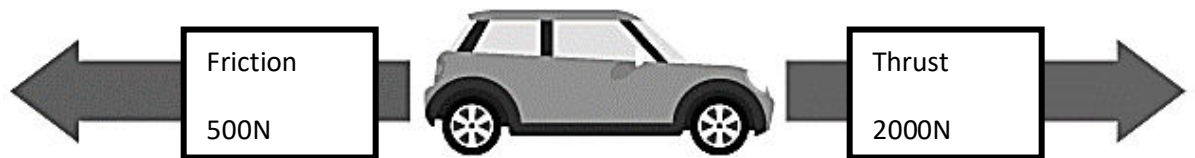**PENANG SANGAM HIGH SCHOOL**
YEAR 11 PHYSICS
WEEK 3
Dates: (14/06/21) to (18/06/21)
WORKSHEET 3

1. A car slows from 22 m/s to 3.0 m/s. If the car has a **deceleration** of $2.1 m/s^2$ how long does it take the car to come to a speed of 3.0 m/s?

2. A $500\ kg$ car is moves along the road with a force of $2000\ N$ towards east. A force of $500\ N$ acts against the $2000\ N$ force on the floor.

| Friction 500N		Thrust 2000N

Calculate the acceleration of the car.

3. Sarah is sitting on one side of the see-saw balance while James on the other side. James places his bag 0.6 m away from the fulcrum as shown below.

Sarah   s   James
1.4m   0.6m
50N
450N   300N
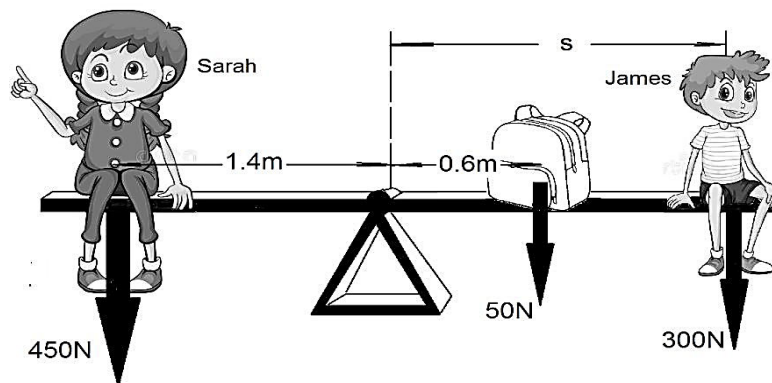
Calculate the distance, S, that James should maintain to balance the see-saw.

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4. A model train travels around the track from A to B then to C and to D and back to A as shown below. Fill in the distance and the displacement of the train at various stages of the journey around the track shown in the table drawn in the Answer Book.
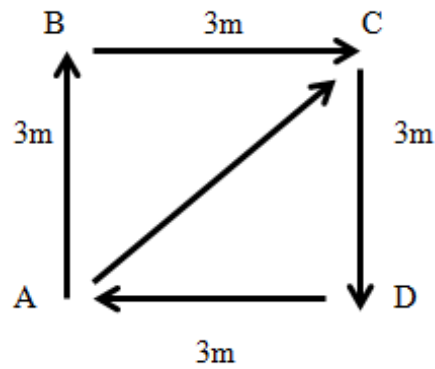
5. A mass of 5kg hangs by a light string and is pulled to one side by a force, F.
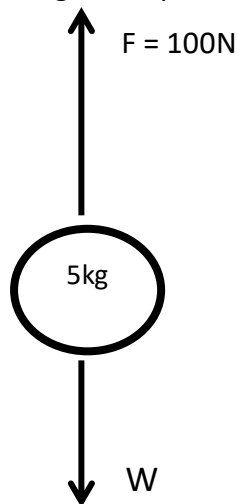
a. Determine the weight force, W.

b. Calculate the acceleration of the mass.