

## Orbits

	Mercury	Venus	Earth	Mars	Jupiter	Saturn	Uranus	Neptune
Distance From Sun (million km)	60	108	149.6	228	778	1427	2870	4497
Orbital period (days)	88	225	365.25	687	4383	10960	30681	60270

- 1) Is there a relationship between distance( $r$ ) of a planet from the Sun and its orbital period ( $T$ ). Plot a graph and describe the relationship.
- 2) Work out the speed of the planets in metres per second. Note: you will need to change times to seconds and distances to metres. (if you are not sure of what formula to use to work out speed, ask the teacher).
- 3) On the same graph, plot the speed of the planets against the distance ( $r$ ) from the Sun. Describe the relationship.