Give an example of an unbalanced force. Be Specific
How do you change velocity? (There are 2 ways!!)
Is a parked car moving? Explain.
You walk $10 \mathrm{~m} \mathrm{~N}, 40 \mathrm{~m} \mathrm{~S}, 15 \mathrm{~m} \mathrm{~N}, 20 \mathrm{~m} \mathrm{~N}$, and finally 5 m S . What is your displacement? What is your distance?
What is the SI unit for distance?
Convert.... 40 cm into inches, 3 inches into $\mathrm{cm}, 55 \mathrm{~m}$ into inches, 1000 inches into meters
What are the 4 fundamental forces?
A car dives with an average speed of $40 \mathrm{~km} / \mathrm{h}$. How long (h)does it take the car to travel 90000 meters?
Are the following speeds or velocities? $100 \mathrm{mph} \quad 45 \mathrm{~km} / \mathrm{h} \quad 36 \mathrm{~m} / \mathrm{s} \mathrm{N} \quad 60$ miles per hour The label for speed in SI units is.....
Name the 2 different types of forces. Also, give 2 example for each.
A car dives with an average speed of $40 \mathrm{~km} / \mathrm{h}$. How long (s)does it take the car to travel 90000 meters?
What is the net for when you push with 40 N east on a box and your dad pushes with 50 N east on the same box?
What would be a reference point for the following items? (ALL are moving)
Car driving down a road
Person walking a dog
A desk sitting in a classroom
You walk $440 \mathrm{~m} \mathrm{~N}, 600 \mathrm{~m} \mathrm{~S}, 145 \mathrm{~m} \mathrm{~N}, 705 \mathrm{~m} \mathrm{~S}$. What is your distance? What is your displacement?
You are looking at a bird on the ground. You close your eyes and when you open them, the bird has moved. Explain how you KNOW the bird has moved.
Can a child on a moving merry-go-round have a constant speed, velocity, both, or none?
Explain.
Give an example of 4 different forces.
A car drives 300 km in 8 hours. What is the cars average speed in $\mathrm{km} / \mathrm{h}$ ? $\mathrm{m} / \mathrm{s}$ ?
Give an example of a balanced force. Be Specific
A car dives with an average speed of $60 \mathrm{~km} / \mathrm{h}$. How far (km)does the car drive in 625 minutes? In (m)?
What does friction do?
What is the difference between average speed and instantaneous speed?

Draw a distance-time graph using the following info.

| Time $(\mathrm{s})$ | Distance $(\mathrm{m})$ |
| :--- | :--- |
| 10 | 5 |
| 20 | 10 |
| 40 | 20 |
| 60 | 40 |
| 70 | 40 |
| 90 | 90 |
| 100 | 5 |

What is happening from $10-40$ seconds?
What is happening from $90-100$ seconds?
What is happening from $60-70$ seconds?
A car accelerates from $30 \mathrm{~m} / \mathrm{s}$ to $50 \mathrm{~m} / \mathrm{s}$ in .25 hours. What is the cars acceleration $\left(\mathrm{m} / \mathrm{s}^{2}\right)$ ?
A dog is sitting down and then get up to chase a squirrel. While the dog is running he has a velocity of $12 \mathrm{~m} / \mathrm{s}$. What is the dogs acceleration is he runs for 1.24 minutes?
Name the 2 types of friction. Give examples of each.
A car accelerates with an acceleration of $0.6 \mathrm{~m} / \mathrm{s}$ for 0.6 hours. What is the cars final speed if the car started from rest?
A rocket accelerates with an acceleration of $2.5 \mathrm{~m} / \mathrm{s}$ for 0.002 hours. What is the rockets final speed if the car initial speed was $1 \mathrm{~m} / \mathrm{s}$ ?
What is the net for when you push with 40 N east on a box and your dad pushes with 50 N west on the same box?

