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 m N, 40 m S, 15 m N, 20 m 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 cm, 55 m into inches into meters
What are the 4 fundamental forces?
A car dives with an average speed of 40 km/h. How long (h) does it take the car to travel 90000 meters?
Are the following speeds or velocities? 100 mph 45 km/h 36 m/s N 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 km/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 m N, 600 m S, 145 m N, 705 m 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 km/h? m/s?
Give an example of a balanced force. Be Specific
A car dives with an average speed of 60 km/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?
Ch 11 Study Guide (PS)

Draw a distance-time graph using the following info.

<table>
<thead>
<tr>
<th>Time (s)</th>
<th>Distance (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>20</td>
<td>10</td>
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<tr>
<td>40</td>
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<tr>
<td>70</td>
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</tr>
<tr>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>100</td>
<td>5</td>
</tr>
</tbody>
</table>

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 m/s to 50 m/s in .25 hours. What is the cars acceleration (m/s²)?
A dog is sitting down and then get up to chase a squirrel. While the dog is running he has a velocity of 12 m/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 m/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 m/s for 0.002 hours. What is the rockets final speed if the car initial speed was 1 m/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?