**Year 10 Physics Video Lesson 1: Forces**

**Questions**

1. How can we describe forces? (3 things)
2. What 3 things can forces change?
3. What is the unit of force?
4. What is the difference between ‘scalar’ and ‘vector’ quantities?
5. List 2 ‘contact’ and 2 ‘non-contact’ forces:
6. An object which has balanced forces acting on it can be doing one of two things. What are they?

a)

b)

1. What is the ‘normal contact force?’
2. Two men are pushing a car in opposite directions. One man is pushing with 300N to the LEFT, the other is pushing with 400N to the RIGHT. What is the size of the resultant force, and in which direction does it act?
3. Draw a free-body diagram of a floating ball which weighs 1N:
4. A car is moving at a steady speed as the engine pushes it forward with a force of 10000N. The driver uses the brakes, which give a force of 7000N. How will this affect the motion of the car?