

7ke Balanced and unbalanced forces workbook P131 and P132

1 a i Make it start moving.

ii Make it change speed.

b i Nothing – it stays still.

ii Nothing – it continues to move at the same speed.

2 The correct words are:

Unbalanced, bigger, speed up.

Balanced, the same size as, stay the same speed

3a Apply the brakes.

b It will make them slow down.

5 a They will be smaller.

b It will be faster, because she will be able to go faster before the friction forces balance the force she can put on the pedal.

6. When you first hang something on a force meter the forces are balanced so the spring begins to stretch. As the spring stretches it produces a bigger force.

Eventually the forces are balanced, and the force meter shows the weight of the object.

7. The weight will be stronger than the force from the spring, so the mass will move downwards. When the spring has stretched further, the forces will be balanced again and the force meter will show the new weight.