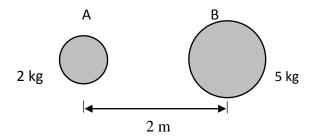
2021 Worksheet 6 Year 12 Physics

Write the answers in your Exercise Book.

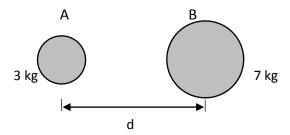
1. (a) State Newton's Law of Universal Gravitation. (1 mark)

(b) Two objects of masses 2 kg and 5 kg are separated by a distance of 2 metres.



Calculate the gravitational force between the two masses. (2 marks)

2. Two objects of masses 3 kg and 7 kg are separated by a distance of d metres.



The gravitational force on A due to B is 20 N

(a) What is the gravitational force on B due to A? (1 mark)

(b) The distance between the masses d in now doubled.Find the new gravitational force on mass A. (1 mark)

(c) Mass A is replaced by another mass of value 6 kg.Find the new gravitational force on mass A. (1 mark)