AQA Chapter 8 Checklist 2017 (Triple)

Chapter 8: Forces in balance Write down what displacement is. Write down what a vector quantity is. Write down what a scalar quantity is. Describe how to represent a vector quantity. Write down what forces can do. Write down what a contact force is. Describe the forces being exerted when two objects interact. Describe what a resultant force is. Describe what happens if the resultant force on an object is zero. Describe what happens if the resultant force on an object is greater than zero. Calculate the resultant force when an object is acted by two forces acting along the same line. State what a free-body force diagram is. State what the moment of a force measures. Calculate the moment of a force can be increased. Describe how the moment of a force can be increased. Describe how levers are force multipliers. Explain how you can tell if a lever is a force multiplier.	
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Describe what gears do.	
Explain how gears can give a bigger turning effect.	
State what the centre of mass of an object is.	
State where the centre of mass of a metre ruler is.	
Find the centre of mass of an object suspended from a fixed point.	
Find the centre of mass of a symmetrical object.	
Use your knowledge of forces and moments to explain why objects at rest	
don't turn.	
Identify the forces that can turn an object about a fixed point.	
Identify whether a turning force that can turn an object turns it clockwise or	
anticlockwise.	
Calculate the size of a force (or its perpendicular distance from a pivot)	
acting on an object that is balanced.	
State what a parallelogram of forces is.	
State what a parallelogram of forces is used for.	
Write down what is needed to draw a scale diagram of a parallelogram of	
forces.	
Use a parallelogram of forces to find the resultant of two forces.	
Describe what resolving a force means.	

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Describe how to resolve a force into two components.	
Define equilibrium.	
Explain why an object at rest is in equilibrium.	
Chapter 8: Equations I need to know.	
moment (M) = force (F) x perpendicular distance* (d) (N m) (N) (m)	
*from the line of action of the force to the pivot.	
Chapter 8: Equations I am given and need to use.	
None! Lucky you!	
Chapter 8: Key words I need to know	
Displacement: distance in a given direction.	
Force: a force (in newtons, N) can change the motion of an object.	
Friction: the force opposing the relative motion of two solid surfaces in	
contact.	
Load: the weight of an object raised by a device used to lift the object, or the	
force applied by a device when it is used to shift an object.	
Magnitude: the size or amount of a physical quantity.	
Moment: the turning effect of a force.	
Newton's first law of motion: <i>if the resultant force on an object is zero, the</i>	
object stays at rest if it is stationary, or it keeps moving with the same speed in the same direction.	
Newton's third law: when two objects interact with each other, they exert	
equal and opposite forces on each other.	
Parallelogram of forces: a geometrical method used to find the resultant of	
two forces that do that do not act along the same line.	
Principle of moments: for an object in equilibrium, the sum of all the	
clockwise moments about any point = the sum of all the anti-clockwise	
moments about that point.	
Resultant force: a single force that has the same effect as all the forces	
acting on the object.	
Scalars: a physical quantity, such as mass or energy that has magnitude only	
(unlike a vector which has magnitude and direction).	
Vector: a vector is a physical, such as displacement or velocity that has a	
magnitude and a direction (unlike a scalar which has magnitude only).	