**Graphical user interface

Description automatically generated with medium confidenceCentre of Mass and Moments** (Phys)

RAG your understanding.

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|  | **Start of Topic** | **End of Topic** | **Revised** |
| **5.1 Forces and their interactions** |  |  |  |
| P.5.1.3.a I can describe weight as the force acting on an object due to gravity, and explain that its magnitude at a point depends on the gravitational field strength, for which I can state the units. |  |  |  |
| P.5.1.3.b I can calculate weight by recalling and using the equation: W = mg |  |  |  |
| P.5.1.3.c I can represent the weight of an object as acting at a single point which is referred to as the object's ‘centre of mass’. |  |  |  |
| **5.4 Moments, levers and gears (physics only)** |  |  |  |
| P.5.4.1.a I can define the moment of a force and examples in which forces cause rotation. |  |  |  |
| P.5.4.1.b I can state that a body in equilibrium must experience equal sums of clockwise and anticlockwise moments, and recall and apply the equation:  M = Fd |  |  |  |
| P.5.4.1.c I can apply the idea that a body in equilibrium experiences an equal total of clockwise and anti-clockwise moments about any pivot. |  |  |  |
| P.5.4.1.d I can explain why the distance, d, must be taken as the perpendicular distance from the line of action of the force to the pivot. |  |  |  |

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| **Doddle Quizzes** | **Mark:** | **Out of:** |
| <https://www.doddlelearn.co.uk/app/teacher/launch-content/a3a61b78-edd4-478a-b3d8-060b707f7767> |  | 25 |