Mechanics 2

Pearson Edexcel · International A-Level · Further Mathematics · Vocabulary in context

Word	Example
kinetic energy /kɪ'netɪk 'enədʒi/	A fast car has a lot of **kinetic energy**.
potential energy /pə'tenʃl 'enədʒi/	Raising the box increases its gravitational **potential energy**.
integration /ˌɪntɪ'greɪʃn/	**Integration** finds the work done by a force that changes.
projectile /prə'dʒektaɪl/	A thrown ball is a **projectile**.
trajectory /trə'dʒektəri/	The ball's **trajectory** is a curve.
centre of mass /'sentə ɒv mæs/	The **centre of mass** of a ruler is in its middle.
wire framework /'waɪə 'freɪmwɜːk/	A **wire framework** is a shape made of thin wires.
work done /wɜːk dʌn/	**Work done** is force times distance moved.
work-energy principle /wɜːk 'enədʒi 'prɪnsɪpl/	The **work-energy principle** says work done equals the change in kinetic energy.
conservation of mechanical energy /ˌkɒnsə'veɪʃn ɒv mɪ'kænɪkl 'enədʒi/	With no friction, **conservation of mechanical energy** applies.
power /'paʊə/	A 60 W lamp has a **power** of 60 watts. 60 W 60
coefficient of restitution /ˌkəʊɪ'fɪʃənt ɒv rɪstɪ'tjuːʃn/	Find the **coefficient of restitution** from approach and separation speeds.
rigid body /'rɪdʒɪd 'bɒdi/	A wheel can be treated as a **rigid body**.

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Word	Example
moment /'məʊmənt/	A long spanner gives a larger **moment**.
normal reaction /'nɔːml rɪ'ækʃn/	The **normal reaction** pushes up on a box sitting on a table.
friction /'frɪkʃn/	**Friction** between the tyres and the road stops the car sliding.
limiting equilibrium /'lɪmɪtɪŋ ˌiːkwɪ'lɪbrɪəm/	In **limiting equilibrium**, the box is just about to slide.