P · Quantities and units in mechanics

AQA · A-Level · Mathematics · Vocabulary in context

Word	Example
SI system /ˌes ˈaɪ ˈsɪstəm/	In the **SI system**, length is measured in metres, mass in kilograms and time in seconds.
base units	The kilogram, metre and second are **base units** of the SI system.
derived unit /dɪˈraɪvd ˈjuːnɪt/	The metre per second is a **derived unit**.
mass /mæs/	The **mass** of this bag of rice is 5 kg. 5 kg
displacement /dɪˈspleɪsmənt/	After walking 3 km east, your **displacement** is 3 km east. 3 km 3 km
velocity /vəˈlɒsɪti/	The ball's **velocity** is 5 m/s to the left. 5 m/s
acceleration /əkˌseləˈreɪʃn/	The car speeds up quickly, so its **acceleration** is large.
newton /ˈnjuːtn/	The **newton** is the unit of force.
weight /weɪt/	Your **weight** is the pull of the Earth on you.
moment /ˈməʊmənt/	A long spanner gives a larger **moment**.
scalar /ˈskeɪlə/	Mass is a **scalar** because it has no direction.
vector /ˈvektə/	A **vector** describes both size and direction.
dimensional check	A **dimensional check** tests a formula by comparing the units on both sides.

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Word	Example
work /wɜːk/	You do **work** when you push a box across the floor.
power /ˈpaʊə/	A 60 W lamp has a **power** of 60 watts. 60 W 60