REVISION GUIDE

Motion, Work, and Energy Revision Pack

A better revision pack for motion, work, energy, and power, with worked examples and rate-versus-quantity reminders.

QUICK OVERVIEW

Category: physics

Includes 3 related guide pages.

Links back to 7 calculator tools.

FORMULA HIGHLIGHTS

Distance

distance = speed x time

Power

P = W / t

MOTION BASICS

Distance, speed, and time stay reliable when units are consistent and the interpretation of average speed is kept clear.

WORK AND ENERGY

Work describes transferred energy in simple aligned-force cases. Energy quantities describe stored or moving capacity for change.

POWER AS RATE

Power turns work or energy into a rate question. Without time, you do not yet have power.

WORKED EXAMPLES

Convert minutes to seconds before combining with m/s.

Compare how changing speed affects kinetic energy much more strongly than it affects momentum.

COMMON MISTAKES

- Mixing units across motion calculations.
- Confusing energy with power.
- Using average-rate formulas in settings that need a more detailed motion model.