

On momentum

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Warm-up problems

1. Give the definition of *momentum* in physics. What formula can be used to work it out and what is the unit used to measure it?
2. Energy and momentum are both special quantities in physics, because they are both *conserved*. Explain what this means and how it can be useful.

Regular problems

4. In each situation, calculate the momentum of the object.
 - (a) A child of mass 40 kg riding on a skateboard at a speed of 2 m/s.
 - (b) A pebble of mass 100 g flying from a catapult at 15 m/s.
 - (c) A car of mass 1250 kg travelling at 10 m/s.



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