BRITISH COLUMBIA PHYSICS 11 (MPH--11) · BRITISH COLUMBIA

British Columbia Physics 11 (MPH--11)
Practice Test

Unit C: Energy, Work and Power

10 Questions

Original practice test based on the British Columbia curriculum. Work through each question, then check your answers at the end.

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

© 2026 Brett Robbins. All Rights Reserved.

Question 1

A pump does 150 J of work in 5 s. The power, in watts, is ____

Understand It with Pulse | Flag a mistake

Question 2

Work is zero when a force causes

A) no displacement

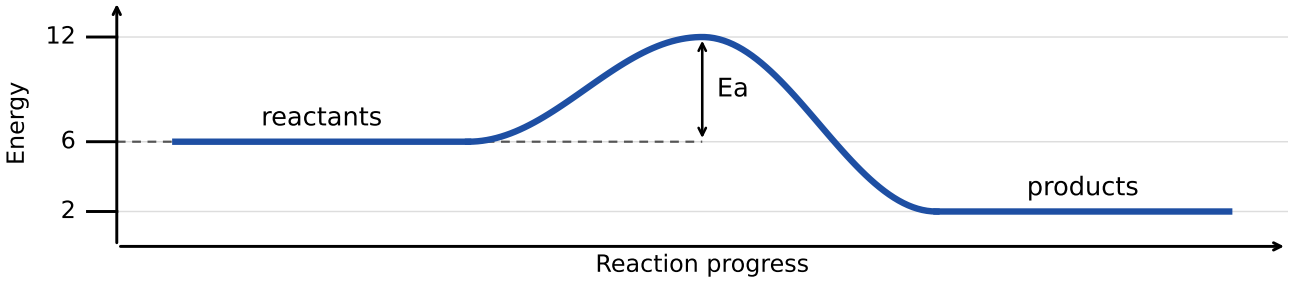
B) a large displacement

C) a fast motion

D) a slow motion

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.



Question 3

The energy diagram shows reactants at 6 units, a peak at 12 units, and products at 2 units. The activation energy, in the same units, is

A) 2

B) 4

C) 6

D) 10

Understand It with Pulse

Flag a mistake

Question 4

A toaster has useful output 90 J from an input of 300 J. The efficiency, in percent, is ____

Understand It with Pulse

Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 5

Power is the rate at which

A) force is applied

B) work is done

C) mass is lifted

D) energy is stored

Understand It with Pulse | Flag a mistake



Question 6

A 1 kg ball drops 10 m. Using $g = 9.8$ m per s squared, and ignoring air resistance, the kinetic energy gained, in joules, is ____

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.



Question 7

A pendulum bob has kinetic energy 20 J and gravitational potential energy 35 J. The total mechanical energy, in joules, is ____

Understand It with Pulse | Flag a mistake

Question 8

Energy stored in fuel before it burns is mainly

A) kinetic energy

B) chemical energy

C) sound energy

D) light energy

Understand It with Pulse | Flag a mistake

Question 9

A 2 kg mass is lifted 3 m. Using $g = 9.8$ m per s squared, the work done against gravity, in joules, is ____

Understand It with Pulse | Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

Question 10

For a swinging pendulum, kinetic energy is greatest at

A) the highest point

B) the lowest point

C) the turning point

D) the release point

Understand It with Pulse Flag a mistake

© 2026 Brett Robbins. All Rights Reserved.

ANSWER KEY

1. 30
2. A
3. C
4. 30
5. B
6. 98
7. 55
8. B
9. 58.8
10. B

© 2026 Brett Robbins. All Rights Reserved.