NOVA SCOTIA PHYSICS 11 · UNIT C

# Work, Energy and Power — Practice Test

**Nova Scotia Physics 11 • 10 questions**

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.

**1** **Work of 100 joules is done in 5 seconds. The power, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

**2** **Kinetic energy depends on mass and on**

A. height

B. speed$^2$

C. time

D. force only

Understand It with Pulse | Flag a mistake

3 **Lifting an object slowly at constant speed requires work equal to the gain in**

A kinetic energy

B gravitational potential energy

C heat

D mass

Understand It with Pulse | Flag a mistake

4 **Power can also be calculated as force times**

A velocity

B distance

C time

D mass

Understand It with Pulse | Flag a mistake

5 **Power is the rate of doing**

A force

B motion

C heat only

D work

Understand It with Pulse | Flag a mistake

6 **The joule is a unit of**

A power

B energy and work

C force

D momentum

Understand It with Pulse | Flag a mistake

7 **The unit of power is the**

A watt

B joule

C newton

D pascal

Understand It with Pulse | Flag a mistake

8 **Work is done when a force causes**

A displacement in the force direction

B no movement

C heat only

D a change in mass

Understand It with Pulse | Flag a mistake

9 **Work of 240 joules is done in 8 seconds. The power, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **Work of 600 joules is done in 10 seconds. The power, in watts, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

## ANSWER KEY

| | | | | | |
|---|---|---|---|---|---|
| **1.** | 20 | **5.** | D | **9.** | 30 |
| **2.** | B | **6.** | B | **10.** | 60 |
| **3.** | B | **7.** | A | | |
| **4.** | A | **8.** | A | | |

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