The Physics of Energy, Explained Simply
&
The Physics of Energy For Beginners

Work Done Questions

- **W = F × d** (when force is in the direction of motion)
- **F = Force, d = Distance**
- **W = F × d × cos(θ)** (when force is at an angle θ to the direction of motion)

1. W = 100 N × 5 m = 500 J

2. W = 500 N × 20 m = 10000 J

3. W = 150 N × 1.5 m = 225.0 J

4. W = 2000 N × 10 m = 20000 J

5. W = 250 N × 8 m = 2000 J

6. W = 120 N × 10 m × cos(30°) = 1039.23 J

7. W = 100 N × 15 m × cos(45°) = 1060.66 J

8. W = 300 N × 5 m × cos(60°) = 750.0 J

9. W = 400 N × 4 m × cos(20°) = 1503.51 J

10. W = 90 N × 7 m × cos(35°) = 516.07 J

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