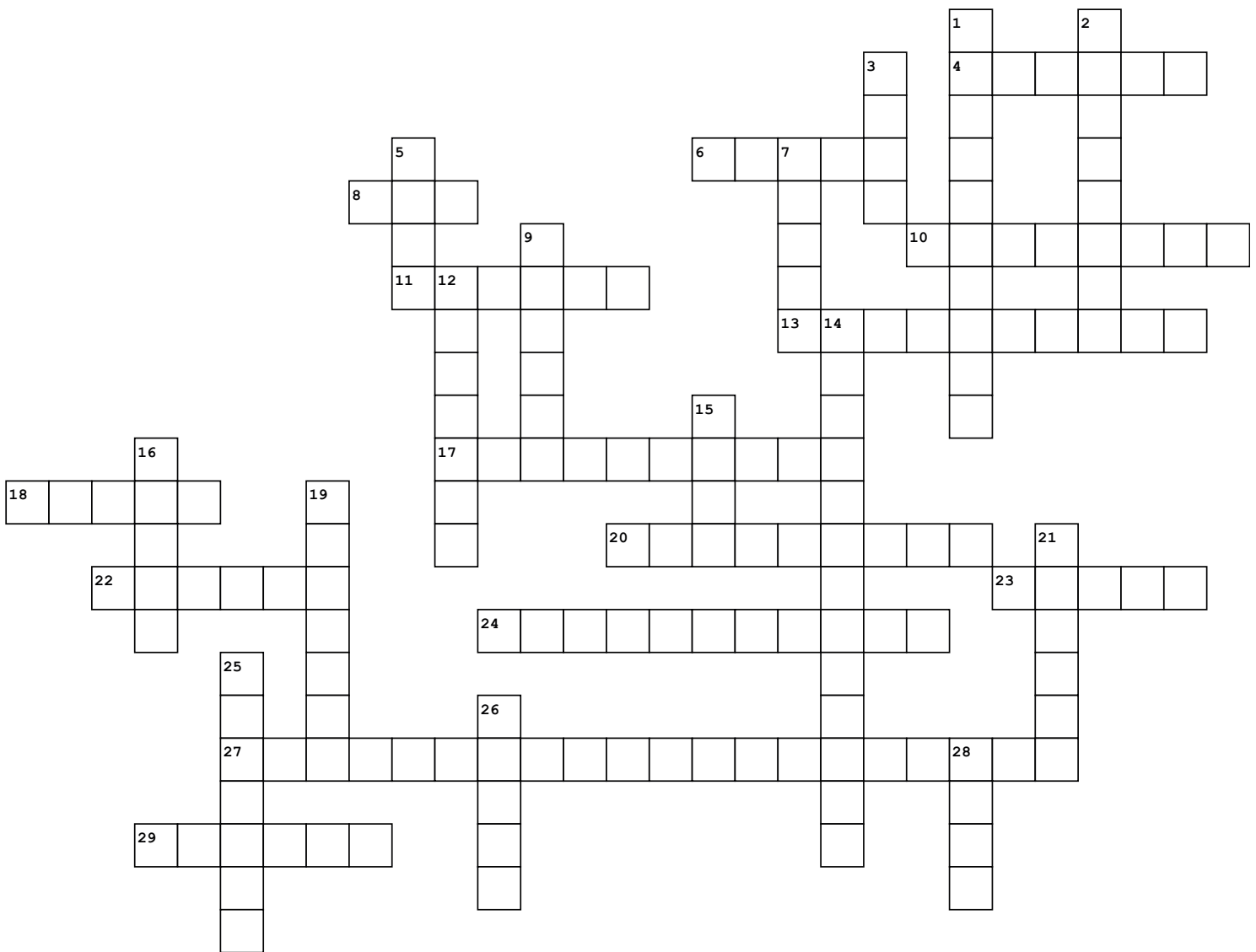


# Work, Energy, Power and Simple Machines Review



## Across

4. THE ABILITY TO DO WORK
6. MEASURES THE RATE AT WHICH WORK IS DONE IN A CERTAIN PERIOD OF TIME.
8. A WHEEL HAS A RADIUS OF 12 INCHES. THE AXLE HAS A RADIUS OF 2 INCHES. WHAT IS THE MA?
10. \_\_\_\_\_ PLANE-SIMPLE MACHINE THAT IS A SLOPED SURFACE, OR RAMP.
11. \_\_\_\_\_ FORCE-FORCE APPLIED TO A MACHINE.
13. ABILITY OF A MACHINE TO CONVERT WORK INPUT INTO WORK OUTPUT.

## Down

1. \_\_\_\_\_ ADVANTAGE-COMPARISON OF THE INPUT FORCE TO THE OUTPUT FORCE OF A MACHINE.
2. A FORCE PRESENT IN ALL MOVING OBJECTS; OPPOSES MOTION.
3. OCCURS WHEN A FORCE IS APPLIED OVER A DISTANCE.
5. A PULLEY SYSTEM ALLOWS SOMEONE TO LIFT A 100 NEWTON BOX UP 5 METERS WITH 20 NEWTONS OF FORCE. WHAT IS THE MA?
7. MOVING INCLINED PLANE WITH ONE OR TWO SLOPING SIDES.

17. \_\_\_\_\_ FORCE-THE FORCE THAT A MACHINE MUST OVERCOME.
18. INCLINED PLANE WRAPPED AROUND A SHAFT.
20. STORED ENERGY
22. THE UNIT OF FORCE
23. TWO NEWTONS APPLIED OVER 4 METERS.
24. YOU ARE ABLE TO LIFT A 50 NEWTON BOX 3 METERS ONTO A TRUCK USING A RAMP. THE RAMP ALLOWS YOU TO PUSH THE BOX AT 20 NEWTONS, OVER 8 METERS. WHAT IS THE PERCENT EFFICIENCY OF THE RAMP?
27. FORCE OUTPUT DIVIDED BY FORCE INPUT.
29. A SURFACE, SUCH AS A WHEEL, THAT REDIRECTS FORCE USING A ROPE.
9. THE UNIT OF WORK
12. THE POINT ABOUT WHICH A LEVER PIVOTS.
14. YOU RIDE YOUR BIKE 1000 METERS TO TOWN. YOU USE 5 NEWTONS OF FORCE FOR EACH METER. HOW MUCH WORK DID YOU DO?
15. THE UNIT OF THE RATE AT WHICH WORK IS DONE.
16. MADE FROM A ROD OR PLANK THAT PIVOTS ABOUT A POINT.
19. THE ENERGY OF MOTION
21. \_\_\_\_\_ MACHINE-WORKS WITH ONLY ONE MOTION, SUCH AS AN INCLINED PLANE, LEVER, ETC.
25. \_\_\_\_\_ MACHINE-COMBINATION OF TWO OR MORE MACHINES.
26. A PULLEY SYSTEM LIFTS A 10 NEWTON BOX 5 METERS. HOW MANY JOULES OF WORK ARE DONE?
28. WHEEL AND \_\_\_\_\_-SIMPLE MACHINE MADE FROM TWO RIGIDLY ATTACHED WHEELS THAT ROTATE TOGETHER.