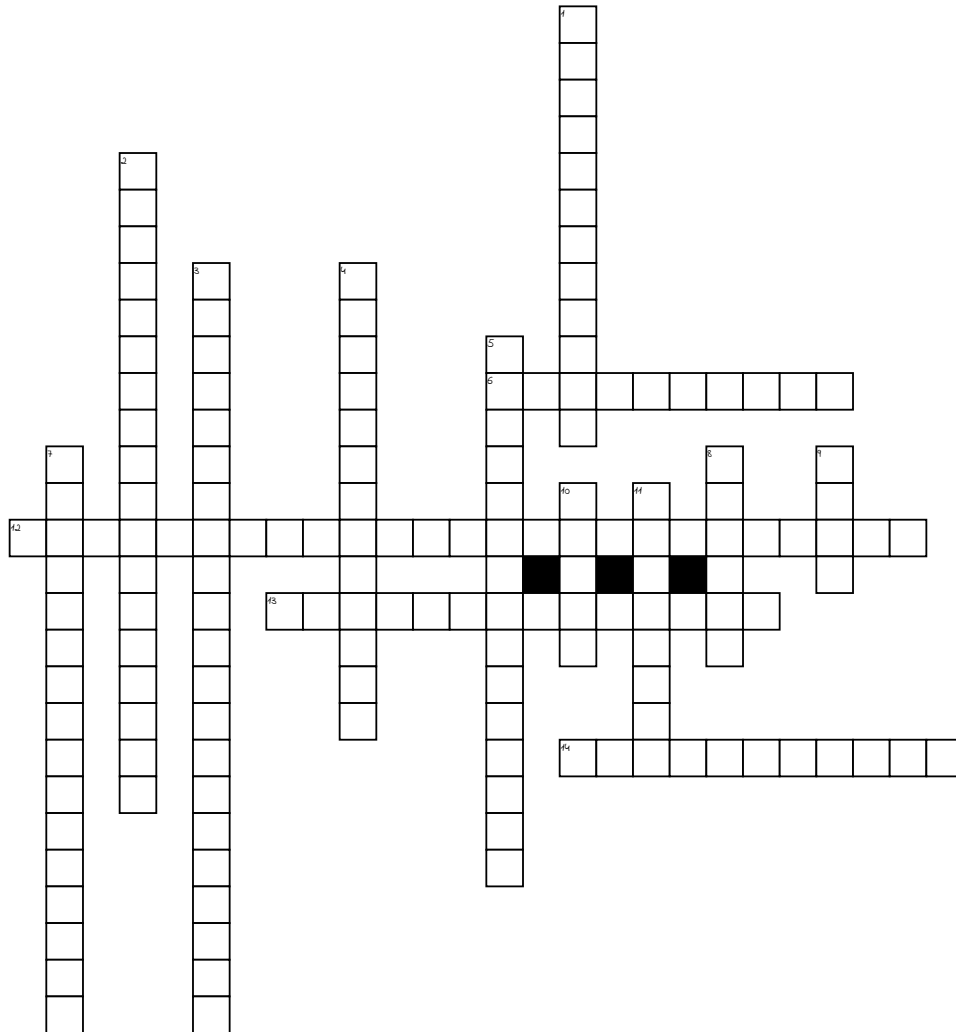


# unit 4 physics crossword puzzle



## Across

6. external forces doing work transfer energy into/out of the system.
12. In physics and chemistry, the law of conservation of energy states that the total energy of an isolated system remains constant.
13. energy released from a chemical reaction.
14. a measure of the average kinetic energy of the particles in a system.

## Word Bank

closed system  
 inelastic collision  
 work  
 law of conservation of energy  
 elastic collision

## Down

1. no external forces doing work or transferring energy into/out of the system.
2. a collision in which kinetic energy is not conserved due to the action of internal friction.
3. The energy acquired by the objects upon which work is done.
4. in motion.
5. could happen, but not moving.

Total mechanical energy  
 momentum  
 potential energy  
 chemical energy  
 power

7. A collision between bodies in which the total kinetic energy of the bodies is conserved.
8. the ability to do work.
9. a force causing a movement
10. the rate of doing work or transferring energy.
11. The force or energy exhibited by a moving body.

open system  
 temperature  
 kinetic energy  
 energy