4.2 Work And Energy

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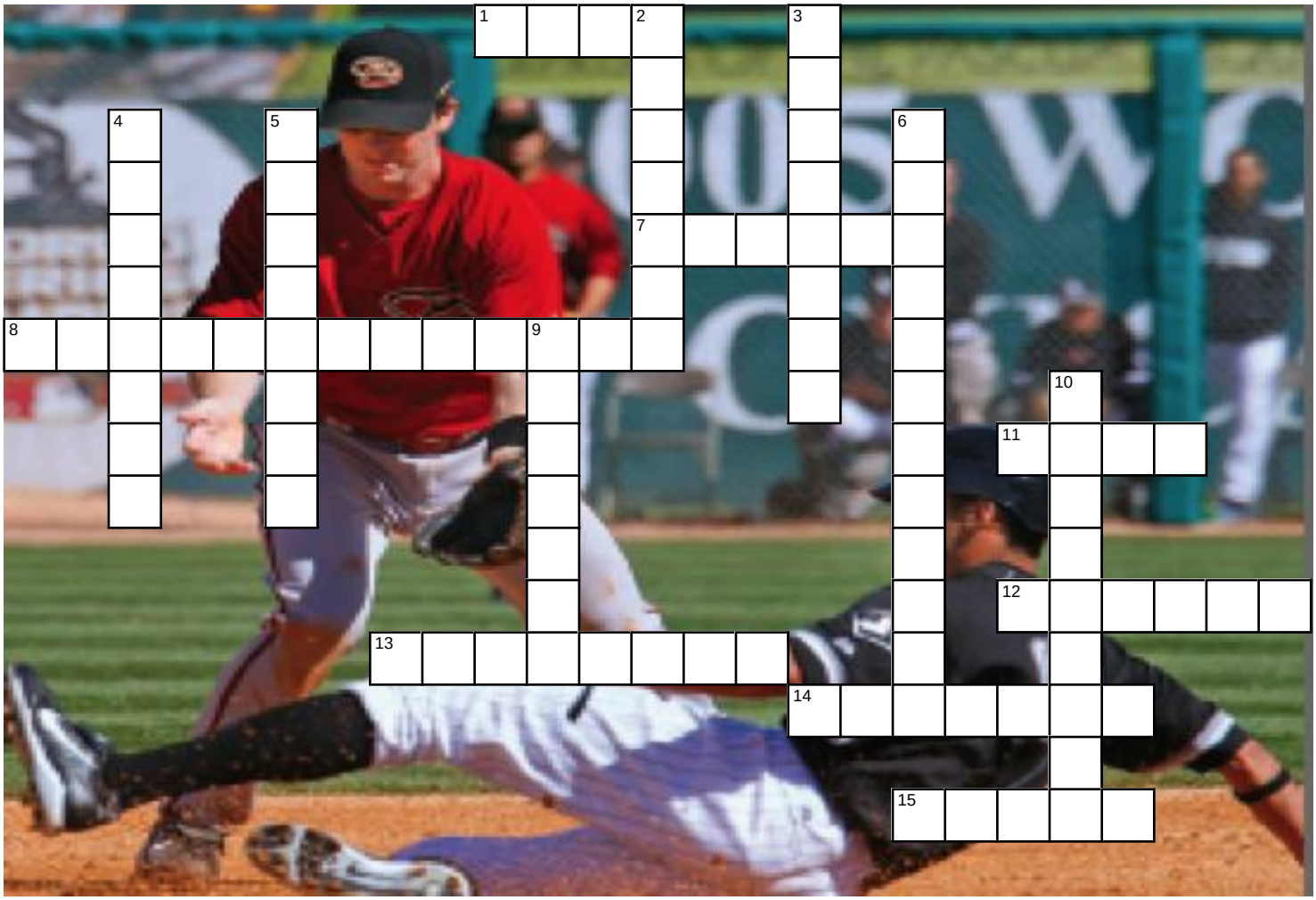

Across

1. When thermal energy transfers to another object or substance it is called _____.
7. The term "kinetic" comes from the Greek word "kinema," which means _____.
8. The potential energy of an object that is able to fall is called _____ potential energy.
11. _____ is done when a force causes something to move and energy is transferred.
12. _____ is the ability to do work.
13. During any transfer of energy the total amount of energy remains _____.
14. _____ energy is the energy due to an object's motion.
15. The metric unit for energy is the _____ (J).

Down

2. _____ energy is the total amount of all the kinetic energy of all the particles in an object or substance.
3. Gasoline and batteries store _____ potential energy.
4. The amount of work done depends on the amount of force exerted and the _____ over which the force is applied.
5. When _____ does work on an object some of the object’s energy is transformed into thermal energy.
6. You cannot create or destroy energy. You can only transfer the energy from one object to another or transform the energy from one form to another. This is called the law of _____ of energy.
9. (Work in joules) = (Force in _____) * (distance in metres)
10. _____ energy is stored energy.