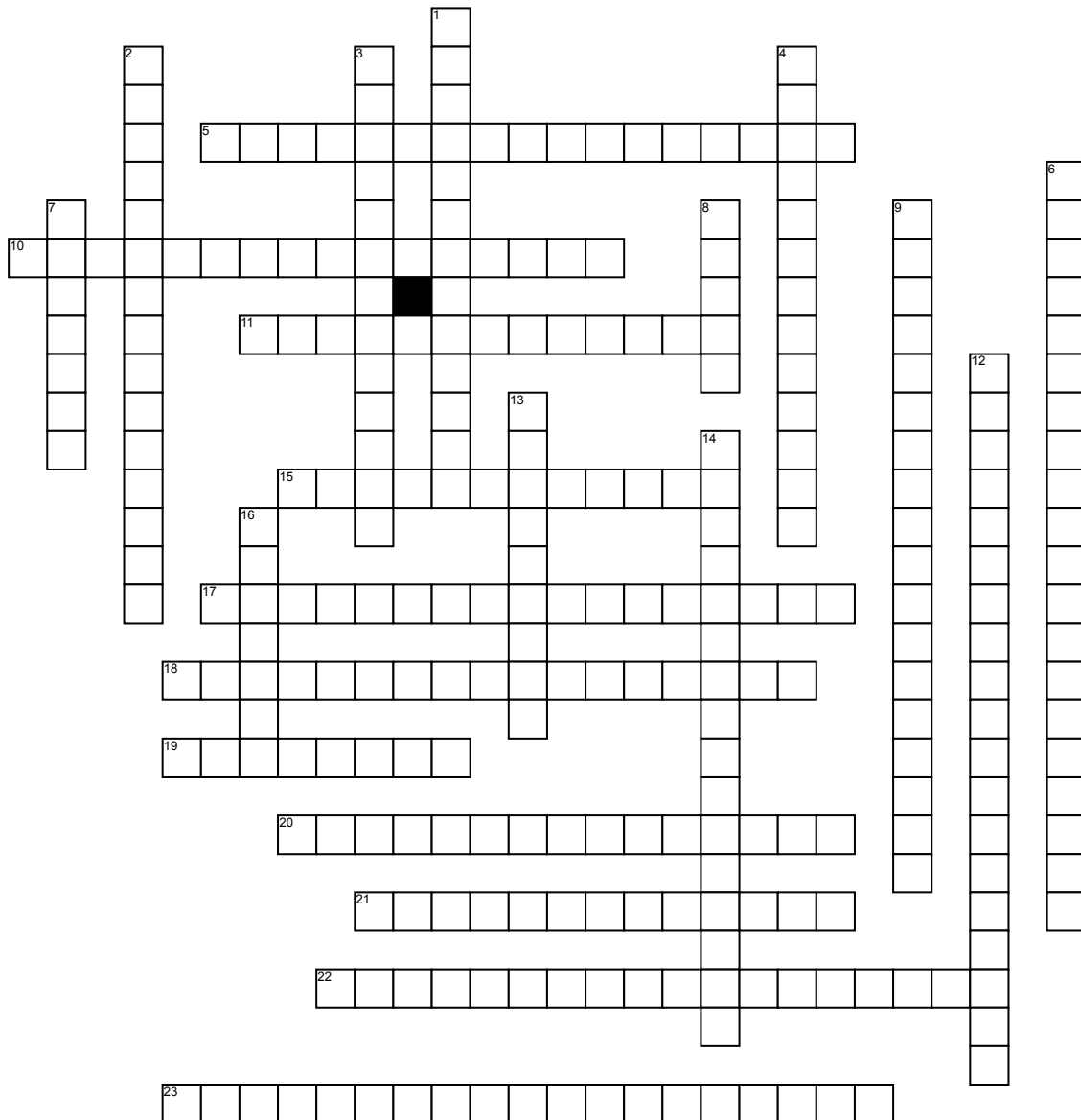


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# Energy, Static Electricity, Electricity, Electromagnetism VOCAB



## **Across**

**5.** The work done on an object by a net force equals the change in kinetic energy of the object

**10.** The process that results in a transfer of electrons between the two objects

**11.** The attractive or repulsive interaction between any two charged objects

**15.** an instrument for detecting and measuring electricity

**17.** The release and transmission of electricity in an applied electric field

**18.** a method used to charge an object without actually touching the object to any other charged object

**19.** protective electrical switch that turns itself off to interrupt the flow of electricity, if the current exceeds a preset limit

**20.** The energy that an object has due to its position in a force field

**21.** The energy that an object possesses due to its motion

**22.** flows one direction then it reverses

**23.** A material whose internal electric charges do not flow freely, which makes it nearly impossible to conduct an electric current under the influence of an electric field

## **Down**

**1.** Current that flows in one direction only

**2.** a flow of electric charge

**3.** the rate at which electric energy is used (  $P=V \cdot I$  )

**4.** an area/ aura of influence around a charged object

**6.** opposite charges attract and like charges repel

**7.**  $I=V/R$

**8.** a short length of wire designed to melt and separate in the event of excessive current

**9.** This process involves the contact of a charged object to a neutral object

**12.** A substance in which electrical charge carries( material that transfers charge easily due to free valance electrons)

**13.** The process of removing the excess charge on an object by means of the transfer of electrons between it and another object

**14.** The sum of potential and kinetic energy

**16.** Electric potential energy per unit charge, measured in joules per coulomb