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| Name: | Score |
| Date:  |  |
| Class: |  |

8th grade Physical Science

Five-A-Days Week 30

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| Monday | Tuesday | Wednesday | Thursday | Friday |
| M1: Electric charges that are different \_\_\_ each other. | T1: In a \_\_\_\_\_\_\_ circuit, there is only one path for current to take.  | W1: A \_\_\_\_\_ must be replaced after too much current to take.  | Th1: Increasing the number of loops in a solenoid will cause the strength of it magnetic field to \_\_\_\_ | F1: Like electric charges \_\_\_\_ each other.  |
| 2. In a (an) \_\_\_\_ circuit, different parts of the circuit are on separate branches.  | 2. A switch can be used to open and close and electric \_\_\_\_ | 2. A magnetic \_\_\_ is a grouping of billions of atoms that all have magnetic fields lined up in the same way. | 2. A (an) \_\_\_\_\_ is the region of magnetic force around a magnet. | 2. Earth’s magnetism is related to the circulation of molten materials within Earth’s \_\_\_ |
| 3. A current consisting of charges that flow in one direction only is called a \_\_\_\_\_\_\_ current. | 3. A (an) \_\_\_\_\_\_ is a coil of wire hat has a current. | 3. A solenoid with a \_\_\_\_\_\_ core is called an electromagnet.  | 3. An \_\_\_\_\_ is a strong magnet that can be turned on and off.  | 3. An electric motor transforms \_\_\_\_\_\_\_ into mechanical energy. |
| 4. The \_\_\_\_ energy of a book on a shelf is equal to the work done to lift the book to the shelf.  | 4. The force exerted by a machine is called the \_\_\_\_\_ force. | 4. The Law of \_\_\_\_\_\_ states that energy cannot be created or destroyed. | 4. Work is the transfer of \_\_\_\_\_ from one object to another.  | 4. As a pendulum swings, energy is continuously transformed between kinetic energy and \_\_\_ energy. |
| 5. The force applied to a machine is called the \_\_\_\_ force. | 5. A \_\_\_\_ is a mixture that appears uniform throughout and whose particles cannot easily be separated. | 5. According to Newton’s second law of motion, \_\_\_ depends on an object’s mass and the net force acting on the object. | 5. Newton’s third law of motion states that for every action there is an equal but opposite\_\_\_. | 5. A person traveling in a car that stops suddenly keeps moving forward due to \_\_\_. |