

## ACROSS

- 2 An electric vehicle (EV) or hybrid electric vehicle (HEV) can reclaim energy by converting the energy of a moving object, called \_\_\_\_\_\_, into electric energy.
- 6 \_\_\_\_\_ rates are measured in units of "feet per second, per second."
- 8 All vehicles generate \_\_\_\_\_\_ to move the wheels to drive the vehicle down the road.
- 10 A \_\_\_\_\_\_ regenerative braking system is less complex because the base (friction) brakes are used along with energy recovery by the motors, becoming generators.
- **11** a is the resistance of an object to change its state of motion.
- 12 In \_\_\_\_\_ regenerative braking systems, the amount of regeneration is proportional to the brake pedal position.
- **13** Most hybrid electric vehicles use \_\_\_\_\_ master cylinders that do not look like conventional master cylinders.

## DOWN

- 1 \_\_\_\_\_ driving means that for normal driving, the driver only needs to use the accelerator pedal to accelerate and decelerate.
- 3 the energy absorbed by the braking system is lost in the form of \_\_\_\_\_ and cannot be recovered or stored for use later to help propel the vehicle.
- 4 This electricity is electrical energy, which is directed to and recharges the high-voltage battery. This process is called \_\_\_\_\_, regen, or simply "reclaiming energy."
- 5 One of the unique things about most electric motors is that electrical energy can be converted into \_\_\_\_\_\_ energy, and mechanical energy can be converted back into electrical energy.
- 7 The faster an object is \_\_\_\_\_, the more force that has to be applied.
- **9** On the Ford Escape hybrid system, the regenerative braking system checks the integrity of the brake system as a \_\_\_\_\_\_.

