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Simple Machines

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| **Across**  **1.**  A wheel with a grooved rim in which a rope or cable can run.  **5.** A system of a living body.  **7.** A ramp that increases the load than can be raised by an effort force.  **10.** Toothed wheels of different diameters linked together to change the speed or direction moved.  **12.** A force applied to one part of a lever to move a load at another part.  **13.** The distance from the fulcrum to the load force.  **14.** The turning effect caused by a force on a rigid object around an axis or fulcrum.  **15.** A double inclined plane that increases the applied or effort force. | **Down**  **2.** A push or pull on an object.  **3.** A large diameter, rigid disk connected to a small-diameter rigid rod.  **4.** A machine made of two or more simple machines.  **6.** A support around which a lever can rotate or pivot.  **8.** The distance from the fulcrum to the effort force.  **9.** A rigid bar that can rotate freely around a fulcrum.  **11.** An inclined plane wrapped around a central shaft that increases the applied or effort force. |