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Work and Machines Crossword Puzzle

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| **Across**  **2.** Two forces acting in opposite directions on an object, and equal in size  **5.** A machine designed to make work easier by increasing the distance and decreasing effort  **7.** The transfer of energy that occurs when a force makes an object move  **8.** The force applied to the machine and the force you exert  **10.** A device that uses energy to perform an activity  **15.** A circular object that revolves on an axle and is fixed below a vehicle or other object to enable it to move easily over the ground  **16.** A simple machine that consists of an inclined plane wrapped in a spiral around a cylindrical post  **19.** The unit used to measure force  **20.** The resistance of any physical object to any change in its state of motion  **21.** The object that is moved or lifted (known as the output force)  **23.** The overall force on an object when all the individual forces acting on it are added together  **25.** measured as a product of an objects mass and velocity  **26.** An influence that causes a free body to undergo acceleration; a push or a pull  **29.** Output force ÷ input force; the number of times a machine multiplies the effort force  **30.** Forces that cause a change in the motion of an object | **Down**  **1.** The forces that oppose the relative motion of an object through a fluid  **3.** A type of lever that looks like a wheel with teeth  **4.** Two or more simple machines that operate together  **6.** A group of wheels with a rope, chain, or cable running along a groove  **9.** A sloping surface that reduces the amount of force required to do work  **11.** A rod or spindle passing through the center of a wheel or group of wheels.  **12.** The weight of the object of which force is being exerted to known as the load  **13.** The force which an effort force must overcome in order to do work on an object via a simple machine  **14.** The unit of work  **17.** Ration of output work done by the machine to input work done on the machine expressed as a percentage  **18.** The point on which a lever rests or is supported and on which it pivots  **22.** A simple machine consisting of a bar free to pivot about a fixed point called a fulcrum  **24.** A force that opposes motion  **27.** A simple machine that is an inclined plane with one or two sloping sides  **28.** a force that acts upon all objects |