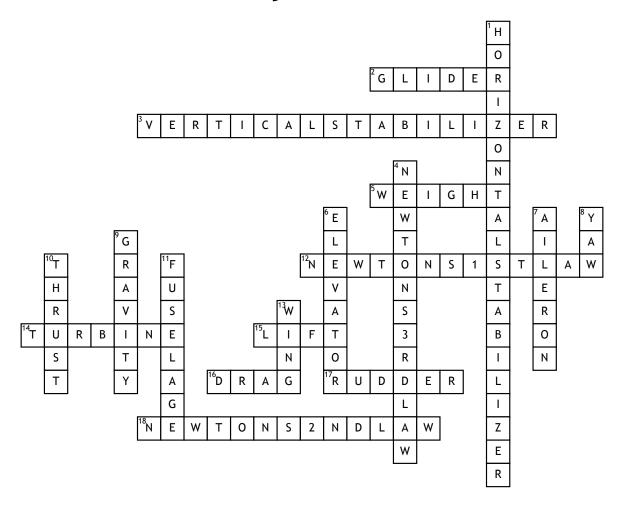
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Lesson 4.2 Key Term Crossword



Across

- **2.** An airplane with no attached source of thrust.
- **3.** A vertically oriented airfoil at the back of an airplane that resists left and right movements.
- **5.** The force generated by the gravitational attraction of the earth on the airplane. Lift must be equal to weight in order to sustain flight.
- **12.** Objects at rest stay at rest and objects in motion stay in motion unless an external force is applied. It is known as the law of inertia.
- **14.** A rotary engine that extracts energy from fluid turning blades.
- **15.** The force that directly opposes the weight of an airplane and holds the airplane in the air.

- **16.** Resistance of the air (technically a fluid) against the forward movement of an airplane.
- 17. A controlling surface on an aircraft's tail that regulates yaw.
- **18.** The relationship among an object's mass (m), acceleration (a), and an applied force (F), is Force equals mass times acceleration (F= ma).

Down

- 1. An airfoil (usually at the back of an airplane) that resists up and down changes in motion.
- **4.** For every action there is an equal and opposition reaction.
- **6.** The controlling surface that regulates an aircraft's pitch.
- **7.** The controlling surface that regulates an aircraft's roll.

- **8.** A side-to-side motion of the nose of the aircraft.
- **9.** The force that attracts a body toward the center of the earth or toward any other physical body having
- **10.** A force applied to a body to propel it in a desired direction. The force which moves an aircraft through the air.
- 11. The central body of an aircraft where wings and stabilizers are attached.
- **13.** The major horizontal surface on an airplane that provides lift.