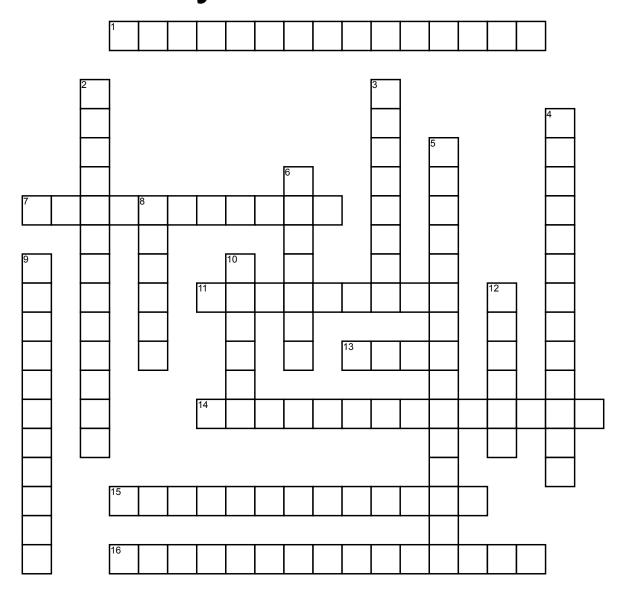
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Aerodynamics - forces



Across

- **1.** coefficient of lift x dynamic pressure x area
- 7. That part of the drag on an aerofoil which arises from the development of lift.
- **11.** This scientist's principle states that total pressure = static pressure
- + dynamic pressure

 13 In straight and leve
- **13.** In straight and level flight, this force opposes weight
- **14.** the pressure of a fluid on a body when the latter is at rest relative to it.
- **15.** The angle between the line of the chord of an aerofoil and the relative airflow.

16. The increase in a moving fluid's pressure over its static value due to motion

Down

- **2.** This is a measure of the airfoil's efficiency.
- 3. a structure with curved surfaces designed to give the most favourable ratio of lift to drag in flight
- **4.** This results when an object is moved through a fluid medium. It is a combination of form drag, skin friction drag and interference drag
- **5.** Slots, flaps, slats are all examples of these.

- **6.** A type of flow which is taking place along constant streamlines, without turbulence.
- **8.** The extent of curvature of a section of an aerofoil.
- **9.** When the succeeding molecule of a fluid follows the same path as the preceeding molecule
- **10.** A force caused by the pull of gravity on mass
- **12.** This is the propulsive force of a jet or rocket engine.