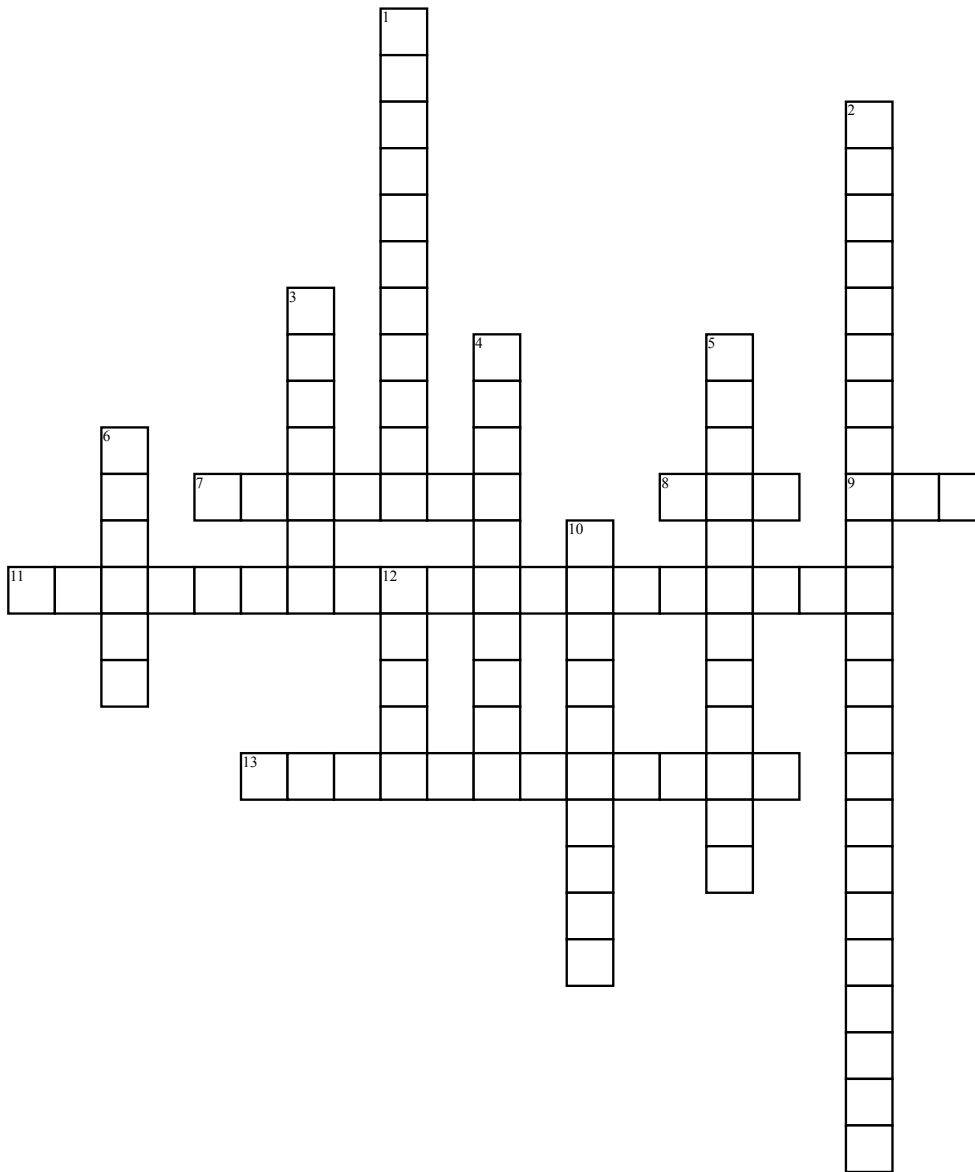


Aerosol Definitions



Across

- 7.** A system of solid or liquid particles suspended by a mixture of gases and can be characterized by concentration, size distribution, structure, and chemical composition.
- 8.** Deposition that the main sink of atmospheric aerosol particles.
- 9.** Deposition that removes 10% of aerosol particles and is less important on a global scale.
- 11.** A process, in which small particles collide with each other and coalesce completely to form a larger particle.
- 13.** Gas to liquid phase change.

Down

- 1.** Aerosol particles range from 1 nm to 100 _____ in diameter.
- 2.** Hygroscopic aerosol particles that can serve as nuclei of atmospheric cloud droplets, that is, particles on which water vapour condenses.
- 3.** Type of atmospheric aerosol sources that include volcanoes, desert dust, forest fires, and sea spray.
- 4.** Generally defined as creation of molecular embryos or clusters prior to formation of a new phase during the transformation of vapor → liquid → solid.
- 5.** Documentary film concerning air pollution in China.

- 6.** Mode of distribution to separate aerosol particles mostly emitted to the atmosphere during mechanical processes from both natural and anthropogenic sources (particle diameter $d > 1 \mu\text{m}$).
- 10.** Mode of distribution to separate aerosol particles produced by homogeneous and heterogeneous nucleation processes (particle diameter $< 0.1 \mu\text{m}$).
- 12.** Deposition where aerosol particles get into cloud droplets or cloud ice crystals through working as cloud nuclei, or being captured by them through collision.