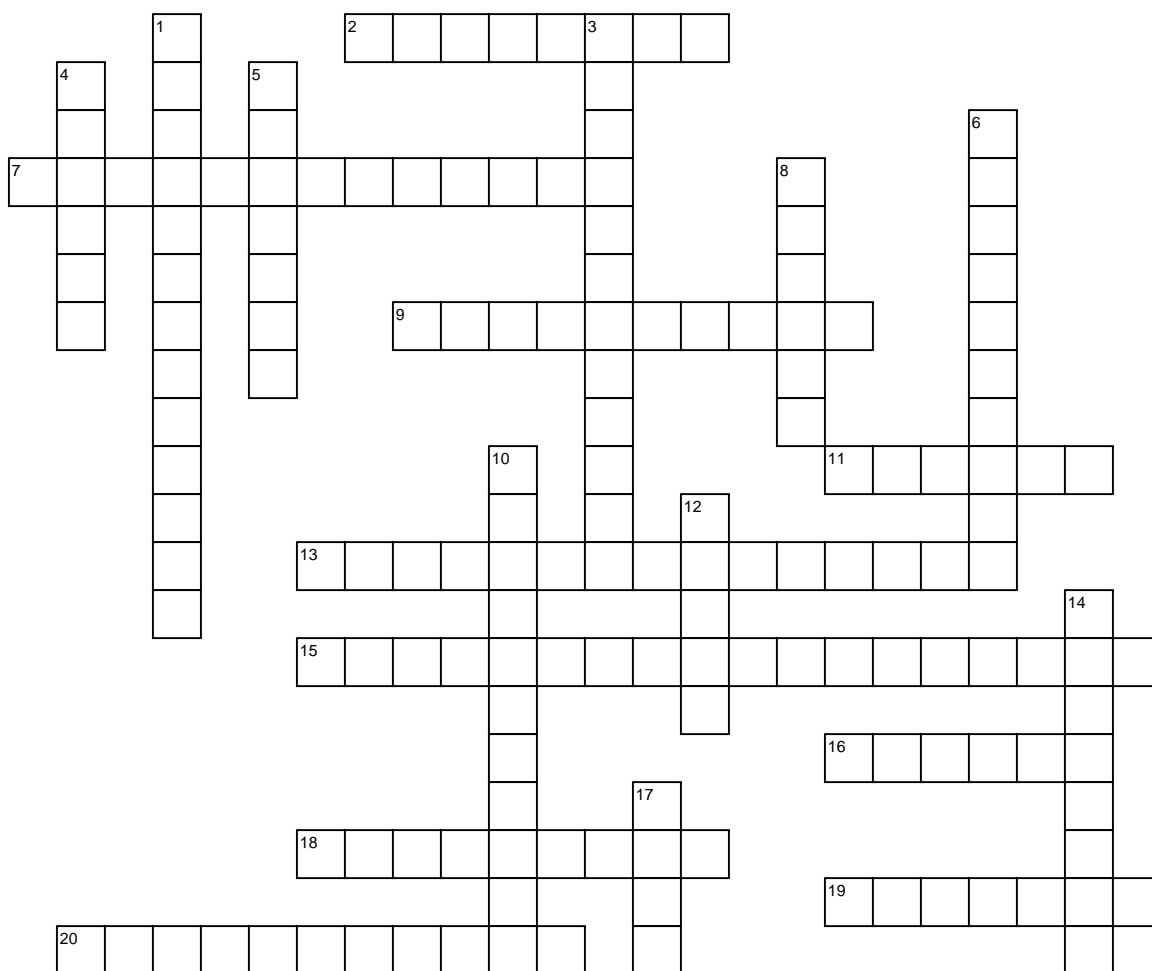


# Roland-Story Meteorology Class

## Chapter 16 -- Optical Phenomena



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### ACROSS

- 2 a distortion of the senses, revealing how the brain normally organizes and interprets sensory stimulation
- 7 when the image seen is under the real object
- 9 A phenomenon that causes separation
- 11 the science that describes the behavior and properties of light and the interaction of light with matter
- 13 the angle of incidence equals the angle of reflection
- 15 an optical phenomenon that occurs when a ray of light strikes a medium boundary at an angle larger than the critical angle with respect to the normal to the surface
- 16 is a naturally-occurring optical phenomenon, in which light rays are bent to produce a displaced image of distant objects or the sky
- 18 a visual phenomenon created by the reflection of light from ice crystals with near horizontal parallel planar surfaces
- 19 a mirage that allows objects below the horizon to be seen
- 20 an optical phenomenon which results from a temperature inversion

### DOWN

- 1 when the image seen is above the real object
- 3 the addition of two or more waves that result in a new wave pattern
- 4 a common bright circular spot on a solar halo
- 5 these are optical phenomena that cause a spectrum of light to appear in the sky when the Sun shines onto droplets of moisture in the atmosphere
- 6 is the change in direction of a wave due to a change in its speed
- 8 a phenomenon in which colored rings appear around the Sun or the Moon
- 10 phenomena which occur when a wave encounters an obstacle
- 12 an optical phenomenon produced by light reflected toward its source by a cloud of uniformly-sized water droplets
- 14 a mirage in which the size of an object is magnified
- 17 a ring of light that surrounds an object