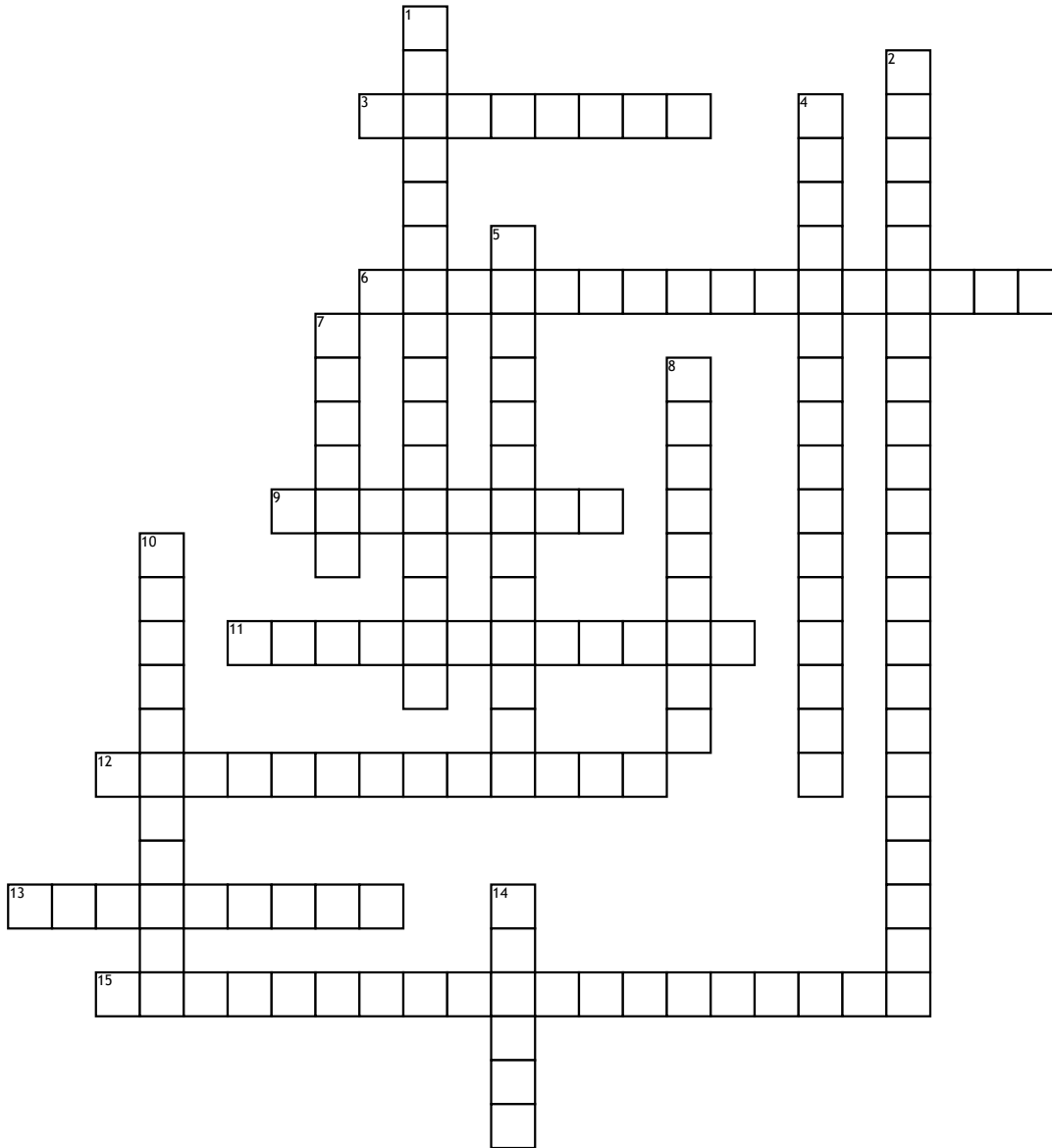


# Benchmark Vocabulary



## Across

3. comparatively young, irregularly shaped group of stars, often numbering up to several hundred, and held together by mutual gravitation; usually found along the central plane of the Milky Way and other galaxies

6. A tectonic boundary where two plates are moving away from each other and new crust is forming from magma that rises to the Earth's surface between the two plates.

9. when a galaxy is moving farther away it is red

11. a cluster of galaxies which themselves occur as clusters.

12. the upper layer of the earth's mantle, below the lithosphere, in which there is relatively low resistance to plastic flow and convection is thought to occur.

13. when a galaxy is moving towards you it appears blue

15. a theory in geology: the lithosphere of the earth is divided into a small number of plates which float on and travel independently over the mantle and much of the earth's seismic activity occurs at the boundaries of these plates.

## Down

1. luster of galaxies, is a structure that consists of anywhere from hundreds to thousands of galaxies that are bound together by gravity with typical masses

2. describes one of the earliest ways geologists thought continents moved over time.

4. a unit of measurement equal to 149.6 million kilometers, the mean distance from the center of the earth to the center of the sun.

5. the two sub-layers of the earth's crust (lithosphere) that move, float, and sometimes fracture and whose interaction causes continental drift, earthquakes, volcanoes, mountains, and oceanic trenches.

7. is a hypothetical supercontinent that included all current land masses, believed to have been in existence before the continents broke apart during the Triassic and Jurassic Periods.

8. a unit of astronomical distance equivalent to the distance that light travels in one year, which is  $9.4607 \times 10^{12}$  km (nearly 6 trillion miles). informal

10. the rigid outer part of the earth, consisting of the crust and upper mantle.

14. a system of millions or billions of stars, together with gas and dust, held together by gravitational attraction.