

Ohio Science Standards

The Cosmic Recipe

The Cosmic Recipe talks about the role chemistry plays in our universe and how elements are created in space. The Cosmic Recipe covers these Ohio Education Standards:

(5th grade - Highschool)

Earth and Space Science (ESS)

- ✓ **The solar system includes the sun and all celestial bodies that orbit the sun. Each planet in the solar system has unique characteristics.**
 - The distance from the sun, size, composition and movement of each planet are unique. Planets revolve around the sun in elliptical orbits. Some of the planets have moons and/or debris that orbit them. Comets, asteroids and meteoroids orbit the sun.
- ✓ **Stars**
 - Star Formations
 - Stages of Evolution
 - Fusion in star

Physical Science (PS)

- ✓ **All matter is made up of small particles called atoms.**
 - Each atom takes up space, has mass and is in constant motion. Mass is the amount of matter in an object. Elements are a class of substances composed of a single kind of atom. Molecules are the combination of two or more atoms that are joined together chemically. Compounds are composed of two or more different elements. Each element and compound has properties, which are independent of the amount of the sample.
- ✓ **Atoms**
 - Models of atoms (Components)
 - Isotopes
- ✓ **Reactions of Matter**
 - Nuclear Reactions