



## STEAM

SCIENCE • TECHNOLOGY • ENGINEERING • ART • MATHEMATICS

DIG WITH OUR 8 IN 1 SPACE ROCK DIG KIT AND EXPLORE THEM LIKE A REAL ASTRONOMERS!  
YOU'LL BE GOING ON A SPACE JOURNEY TO UNLOCK THE MYSTERY OF THE ENDLESS UNIVERSE.



### ABOUT UNIVERSE

The UNIVERSE is everything we can see, feel, sense, and everything beyond our senses. It includes our SOLAR SYSTEM, stars, galaxies, light, and time. It goes on forever, has no end, and is always expanding. Everything in our universe is moving away from every other thing. If you still think it's too hard to understand? Don't worry, even scientists have a hard time with this one!

### WHAT IS GALAXY?

A GALAXY is a group of millions or billions of stars, gas, and dust that is held together by gravity and moves through space as a system.

### HOW LONG IS A LIGHT YEAR?

Space is so large and celestial bodies are so far apart that we need special measurements to calculate distances. We measure space distance in LIGHT YEARS. A light year is the distance that light travels in one year. ONE LIGHT YEAR EQUALS ALMOST 6,000,000,000,000 MILES.

### OUR SOLAR SYSTEM

Our solar system includes our star, which we call the sun, eight planets, moon, comets, ASTEROIDS, METEORIDS, dust, and anything else that orbits around our sun. There are other solar systems, but ours is wondrous and unique. It is the only solar system known to contain life!

### What to do:

1. Find a clear, flat workspace such as a tabletop. Then cover it with newspaper so you don't make a mess.
2. Carefully scrape the clay block with the digging tool. Be gentle! You don't want to risk breaking the subject.
3. As the block breaks apart, use the brush to sweep away the small pieces and dust.
4. All done for digging? Clean up your tools, work area, and hands.
5. Wait! Before you turn the page, clean up! Store away your digging tool and brush. Clean up your work area! Wash your hands with soap and water.

Kit Includes: 8 Dig Blocks, 1 Digging Tool, 1 Digging Brush, 1 Digging Hammer, 1 Instruction Sheet

### SOME GENERAL KNOWLEDGE OF SPACE

**ASTEROID:** One of a number of odd shaped rocks floating in space between Mars and Jupiter

**ASTRONOMER:** a person who studies astronomy

**ASTRONOMY:** the study of objects in space

**ATMOSPHERE:** the air surrounding a planet

**AXIS:** an imaginary line about which a body rotates

**COMET:** a celestial object with a head and tail consisting of ice and dust that orbits the sun

**CONSTELLATION:** a group of stars that resemble a picture

**DWARF PLANET:** a celestial body that is too small and without enough mass to be a planet

**GALAXY:** a system of millions or billions of stars held together by gravitational attraction

**LIGHT YEAR:** a unit of measure determined by the distance light travels in one year

**LUNAR ECLIPSE:** When the moon passes directly behind Earth and light from the sun is blocked

**METEOR:** a rock in space that gets caught in Earth's gravity, burns, and falls to Earth

**METEOR SHOWER:** a period of time when several meteors can be seen falling toward Earth

**METEORITE:** a meteor that has landed on Earth

**METEOROID:** a rock floating in space before it is caught by Earth's gravity

**NASA:** National Aeronautics and Space Administration

**REVOLVE:** to orbit around a body

**ROTATE:** to spin on its Axis

**SHOOTING STAR:** a meteor that burns as it falls in Earth's atmosphere

**SOLAR SYSTEM:** the sun and all the bodies that revolve around it

**STAR:** a giant ball of burning gases that gives off light and heat

**STELLAR OCCULTATION:** when a star's light is temporarily hidden from view while it passes behind another celestial body

**WANE:** when the moon appears to get smaller

**WAX:** when the moon appears to get bigger

**UNIVERSE:** everything we can see, feel, sense, and everything beyond our senses

