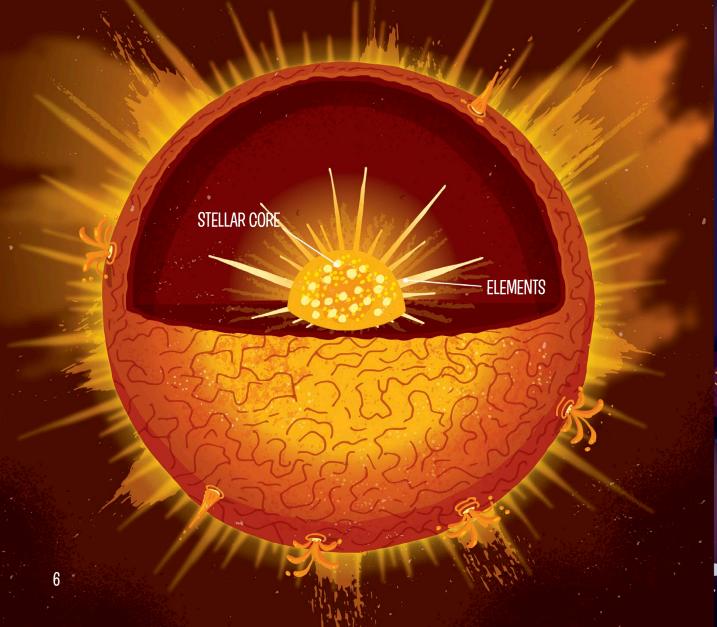




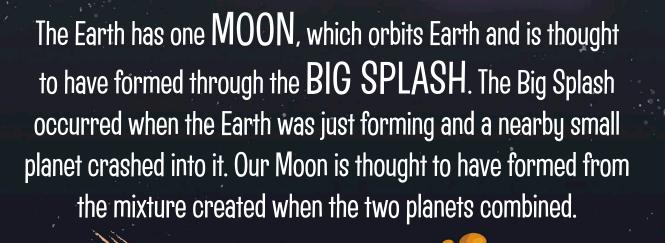
Deep inside the star, within the STELLAR CORE, tiny particles called ELEMENTS slam into each other to create light. This light, or starshine, is proof that some stars are alive.



At the ends of their lives, stars can't shine any longer.

Stars like our Sun fizzle out and fade away, shrinking to become WHITE DWARFS. And bigger stars explode as SUPERNOVAE. Some explosions leave behind a NEUTRON STAR, others collapse into BLACK HOLES, and the rest explode entirely, leaving nothing behind.





Some planets are made of gas, like Jupiter, and some are made of rock, like Earth. Some planets, such as 55 CANCRI E, are even made of diamond!

Although our planet only has 1 Moon, Jupiter has 79 and Saturn has 82 moons!





55 CANCRI E: A planet made of diamond orbiting a star like the Sun.



**ASTRONOMY:** The field of science that uses math, physics, and other sciences to study objects and phenomena outside of the Earth's atmosphere.

**BIG SPLASH:** A theory for the formation of our Moon, which suggests that the Moon formed from the collision of a small planet with the Earth.



BINARY SYSTEMS: A system formed when two objects in space, such as stars, orbit each other.

BLACK HOLES: Formed when massive stars explode, and their leftover cores collapse into a tiny region of space.



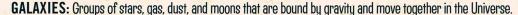
DARK ENERGY: The mysterious, invisible force propelling the Universe to grow and expand.

**DARK MATTER:** The invisible matter that makes up 27% of the contents of the Universe.



**ELEMENTS:** Tiny particles that are the building blocks of all matter in the Universe.

**EXOPLANETS:** Planets outside of our solar system that orbit stars other than the Sun.





GAMMA RAYS: The light in our Universe with the most energy.



**HARBOR:** To support the growth of something. To give shelter and become a refuge.

LIGHT: A type of energy created in the cores of stars, which exists in small particles called photons.



MILKY WAY: A wide irregular band of light that stretches completely around the celestial sphere. Also our home galaxy.

MOON: A small planet-like object that orbits the Earth.



NEUTRON STAR: The leftover cores of dead stars that explode as supernovae.



**ORBIT:** The motion of objects traveling around another object, held together by gravity.

PLANETS: Large objects that orbit around stars.











RADIO WAVES: Light in our Universe that is used for radio telecommunications.

**SAGITTARIUS A\*:** The supermassive black hole at the center of the Milky Way, which holds our galaxy together.

SOLAR SYSTEMS: Systems of stars and orbiting planets.



STAR: A celestial object made up of gas and energy that shines when alive.



STELLAR CORE: The innermost part of a star, where light is created.

SUPERNOVAE: An explosion of a massive star when it is at the end of its life.



**TELESCOPES:** The primary tool that astronomers use to study the Universe. Telescopes collect light, allowing astronomers to see distant objects.



**ULTRAVIOLET WAVES:** Light in our Universe that is responsible for sunburns.

UNIVERSE: Everything we can touch, taste, see, smell, measure, and explore, for all time.



WHITE DWARFS: The leftover cores of dead stars that are not massive enough to explode as supernovae or collapse into black holes.



5 - 의 제도하다. 현대 전에 가장 하는 이번에 대한 도로 마셨다면요. 전 사람들은 이번에 가장 하는 이번에 되었다는 그 나는 사고 있는데 가장 하는데 가장 하는데 하는데 하는데 되었다. 이번에 사