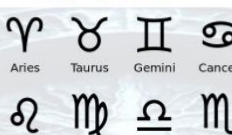


# Stars & Constellations WORKSHEETS

Name: \_\_\_\_\_

## The Zodiac

Choose 3 Zodiac signs from the selection below and draw their outlines with dots.



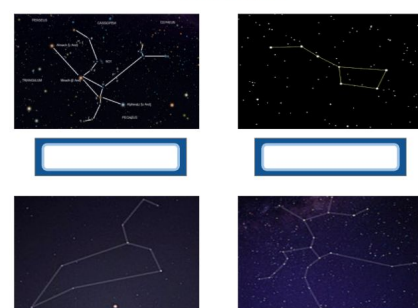
Aries Taurus Gemini Cancer  
Libra Scorpio Sagittarius Capricorn

Name: \_\_\_\_\_

## Name the Constellation

Guess the name of each constellation using the names in the word list.

- SAGITTARIUS
- BIG DIPPER
- LEO
- ANDROMEDA



Four star patterns are shown, each with a corresponding empty box for the student to write the constellation name.

Name: \_\_\_\_\_

## Stars in Arabic

Research each star to find out what its name means in Arabic.

Name	Meaning in Arabic
Eridanus	
Scorpius	
Draco	
Perseus	
Gemini	
Orion	
Corona Borealis	
Cygnus	
Cassiopeia	
Ursa Major	
Virgo	
Aquila	

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- Ryan, Beth & Nicola :)

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7. Constellations Wordsearch.
8. Stars in Arabic.
9. Stars Crossword.
10. The Zodiac.
11. Constellation Quiz.

# Stars & Constellations Facts

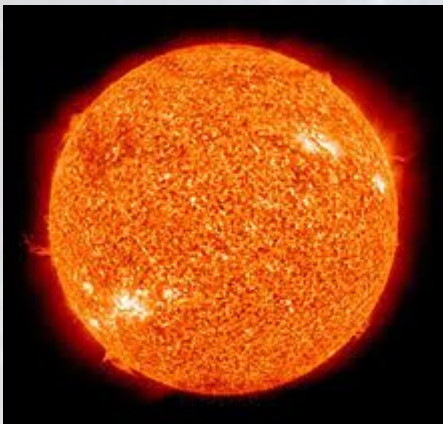


A star is a massive ball of plasma (very hot gas) held together by gravity. It radiates energy because of the nuclear reactions inside it.

A constellation is a group of stars, usually in a recognizable shape or pattern. Together, the stars look like a picture

# Star Facts

- ★ The star that is closest to the Earth is the sun.
- ★ A star is a gigantic, glowing ball of plasma.
- ★ Stars are first formed as clouds of dust and gas.
- ★ Stars give off a tremendous amount of energy in the form of light and heat.
- ★ Stars that have really strong gravity grow smaller over time and eventually turn into black holes.
- ★ The hottest stars give off a bluish light while the cooler stars give off a reddish light.
- ★ Stars seem to twinkle because their light travels through the earth's atmosphere and the turbulence in the atmosphere affects the way stars are seen.
- ★ All the stars that make up the Milky Way Galaxy revolve around the center of the galaxy once every 200 million years or so.
- ★ The oldest star that has been discovered is HE 1523-0901, which is an estimated 13.2 billion years old.



# Star Facts

## Stars in History

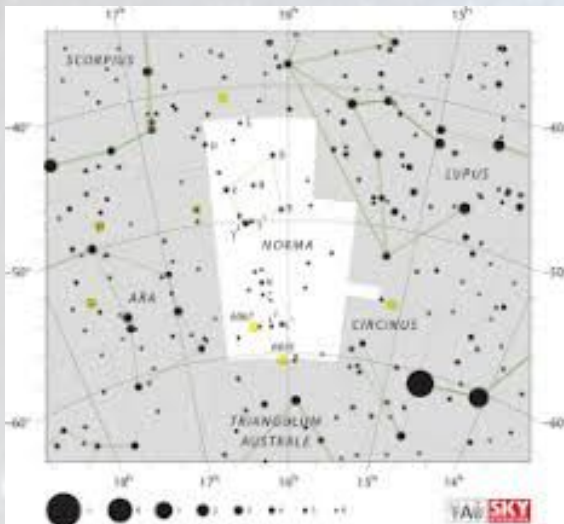
- ★ Stars have been observed for centuries by a variety of peoples.
- ★ They have been important to civilizations for centuries.
- ★ Stars were used for the following reasons:
  - Navigation and orientation
  - To track the motion of the planets
  - Create calendars and track time
  - Regulate harvest cycles
- ★ The oldest star record was recorded by the Ancient Egyptians.
- ★ Many stars have names that originate in Arabic.
- ★ Karl Schwarzschild was a German physicist and astronomer who discovered that the color and temperature of a star could be determined using scientific processes.
- ★ Several scientists, astronomers, physicists, and mathematicians have studied stars for centuries and have made valuable contributions to star research.
- ★ Astronomers have been able to understand a great deal about stars, including how to determine its color, size, distance from earth, temperature, and much more.

## Star Characteristics

- ★ Most stars are between 1 billion and 10 billion years old.
- ★ Stars are composed of 71% hydrogen and 27% helium. The remaining 2% is a composition of mixed heavy elements.
- ★ Stars range in size and have varying levels of surface activity due to their magnetic fields.
- ★ A star's mass, temperature, and luminosity range from star-to-star.

# Constellation Facts

- ★ A constellation is a group of stars that form imaginary outlines.
- ★ Constellations can also represent patterns that depict animals or gods, and sometimes mythological people and creatures.
- ★ There are 88 modern constellations.
- ★ Constellations have changed immensely since their inception.
- ★ Constellations vary in size and shape and some are more popular than others.
- ★ Twelve constellations correlate to the twelve astrological signs: Aquarius, Pisces, Aries, Taurus, Gemini, Cancer, Leo, Virgo, Libra, Scorpio, Sagittarius, and Capricorn.
- ★ Constellations are given a point in the celestial coordinate system.
- ★ The word “constellation” comes from a Latin word meaning “set of stars”.
- ★ Although constellations seem close together from far away, many of them are actually very far away from each other and their observer.
- ★ Since stars travel through their own orbits in space, the outlines of constellations can change, too.

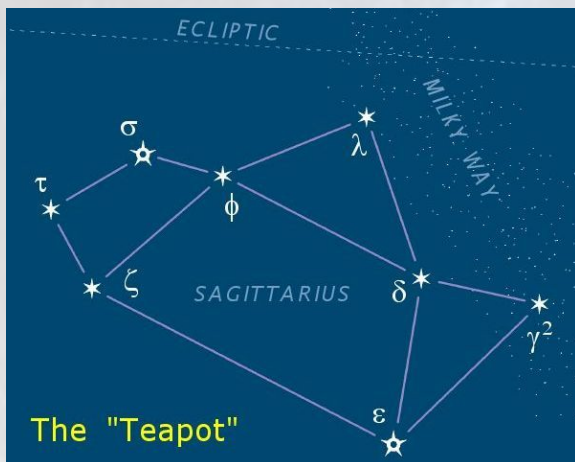


# Constellation Facts

## History of Constellations

- ★ The earliest pieces of evidence for constellations dates back to 3000 BC where inscribed stones and clay tablets were dug up in Mesopotamia (near modern-day Iraq).
- ★ The Babylonians were the first civilization to recognize patterns in the sky and use them in predictions. They even created star catalogues.
- ★ The Greeks adopted the Babylonian system in the 4th century BC.
- ★ Ancient China was a long tradition of observing the sky and studying the systems of constellations.
- ★ Constellations can be divided into two regions - the northern and southern sky; these both have different origins, though.
- ★ Northern hemisphere constellations are deep-rooted in Ancient Greece.
- ★ Southern Hemisphere constellations are more modern inventions and have become substitutes for some ancient constellations.

## Popular Constellations



Andromeda

Aquarius

Cassiopeia

Gemini

Leo

Orion

Sagittarius



Name: \_\_\_\_\_

# Opinion Paragraph

Which constellation do you believe is the most interesting? Choose one (1), draw it in the space below, and explain why it is most interesting to you.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name: \_\_\_\_\_

# True or False?

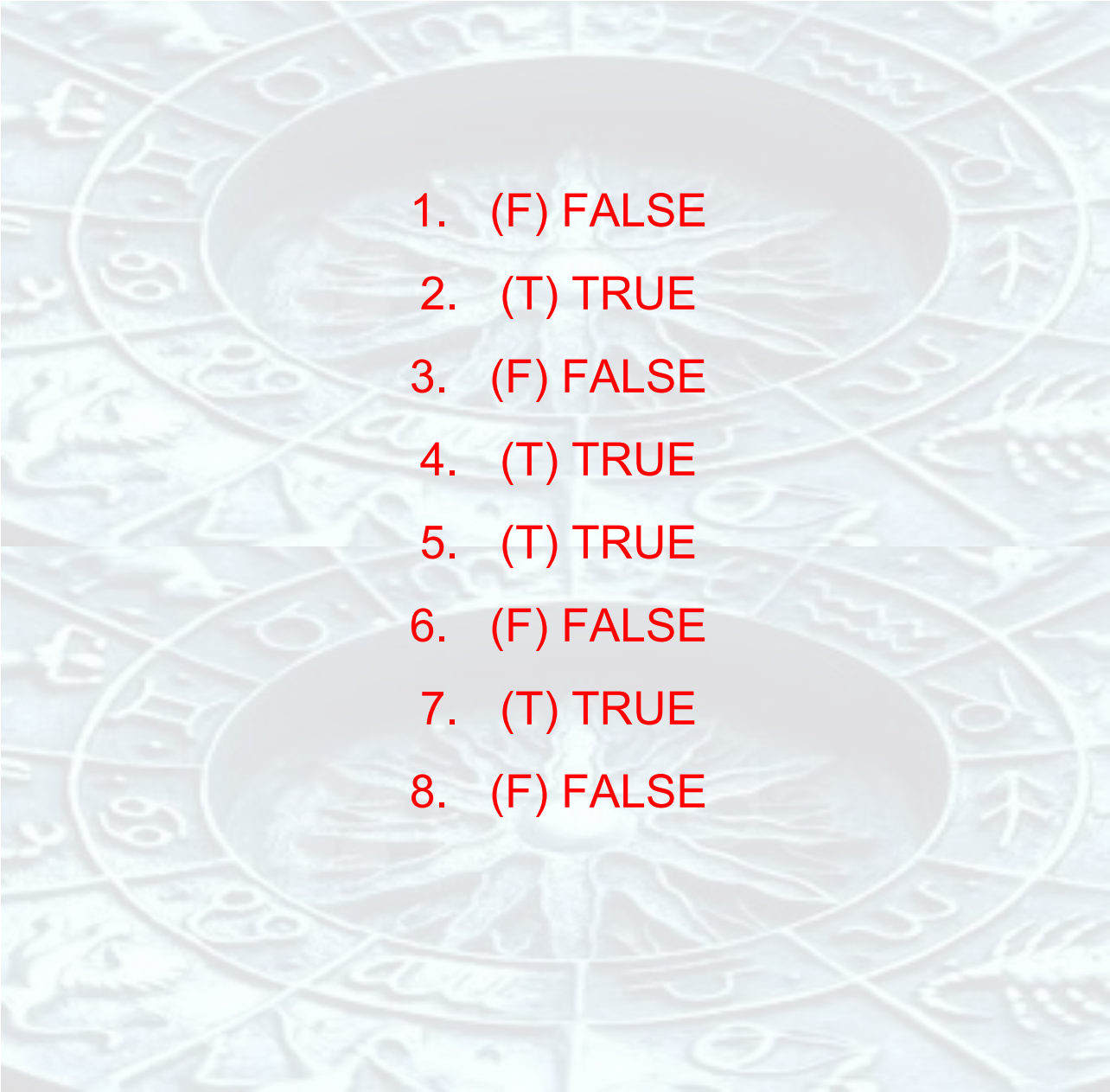
Write a T (true) or an F (false) beside each statement.

1. Stars are made up of 71% helium, and 27% hydrogen. \_\_\_\_\_
2. One of the 12 Zodiac constellations is Virgo. \_\_\_\_\_
3. All the stars in the Milky Way orbit around the sun every 1 million years. \_\_\_\_\_
4. Constellations, although they seem close, are actually very far away from each other. \_\_\_\_\_
5. The word “constellation” comes from the Latin for “set of stars”. \_\_\_\_\_
6. A star is a small speck of plasma in the sky. \_\_\_\_\_
7. Stars give off energy in the form of heat and light. \_\_\_\_\_
8. Southern hemisphere constellations are deep-rooted in Ancient Greece. \_\_\_\_\_

Name: \_\_\_\_\_

# True or False?

## ANSWERS

- 
1. (F) FALSE
  2. (T) TRUE
  3. (F) FALSE
  4. (T) TRUE
  5. (T) TRUE
  6. (F) FALSE
  7. (T) TRUE
  8. (F) FALSE

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