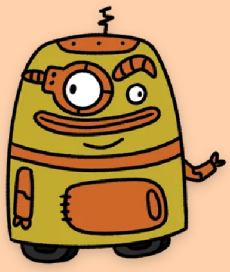
SCIENCE · STARS AND CONSTELLATIONS · GRADES 1–4

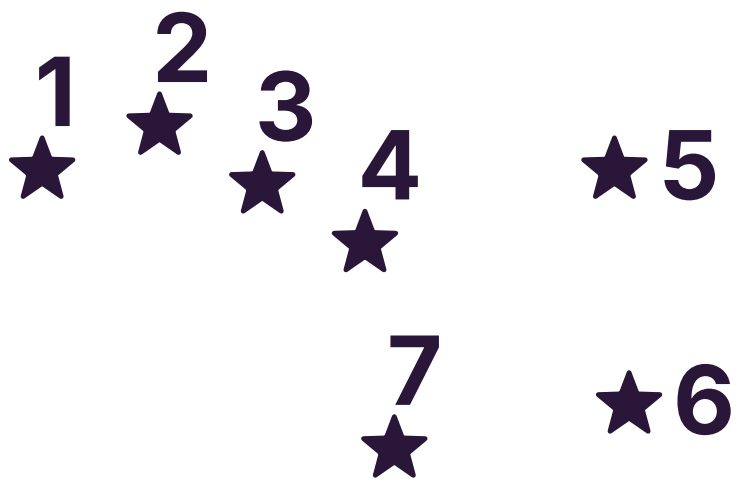
Connect the Big Dipper

Connect the seven stars of the Big Dipper, then invent, draw and name your own constellation.

Name: _____ **Date:** _____



A **constellation** is a group of stars that makes a picture in the sky. The **Big Dipper** looks like a giant spoon. Connect the stars from 1 to 7, then draw one more line from 7 back to 4.



Make up your own constellation. Draw the stars as dots, then connect them.

Its name _____

It looks like _____

Number of stars _____

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SCIENCE · STARS AND CONSTELLATIONS · GRADES 2–5

Stars: True or False?

Eight facts about stars to mark true or false, then fix two false ones.

Name: _____ **Date:** _____



Circle True or False.

Stars are giant balls of hot, glowing gas.	True	False
The sun is the closest star to Earth.	True	False
Stars are only in the sky at night.	True	False
Stars twinkle because moving air bends their light.	True	False
Some stars are much bigger than our sun.	True	False
Shooting stars are stars falling to Earth.	True	False
People have counted every star in the sky.	True	False
Stars last forever and never change.	True	False

Pick two false sentences and fix them so they are true.

_____

_____

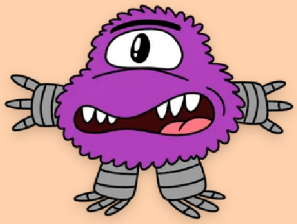
_____

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SCIENCE · STARS AND CONSTELLATIONS · GRADES 3–5

Space Words

Match constellation, galaxy, Milky Way, telescope, astronomer and light-year to their meanings, then answer two questions.



Name: _____ **Date:** _____

1. Draw a line from each word to its meaning.

constellation	a tool that makes faraway things look closer
galaxy	the galaxy our solar system is in
Milky Way	a scientist who studies stars and space
telescope	how far light travels in one year
astronomer	a group of stars that makes a picture
light-year	a huge group of billions of stars

2. Circle the answer.

Stars look tiny to us because they are

very small · very far away · very cold

To look at a faraway star, an astronomer uses a

microscope · telescope · thermometer

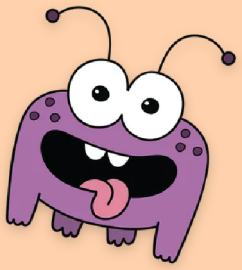
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SCIENCE · STARS AND CONSTELLATIONS · GRADES 3–5

Star Colors

Number four star colors from hottest to coolest, then fill in four sentences about stars and our sun.

Name: _____ **Date:** _____



Stars come in different colors. The hottest stars glow **blue-white**. Cooler stars glow **yellow**, then **orange**, and the coolest glow **red**. Our sun is a medium-size yellow star. It looks bigger and brighter than other stars only because it is much closer to us.

1. Number the star colors from hottest (1) to coolest (4).

- ☐ orange
- ☐ blue-white
- ☐ red
- ☐ yellow

Word bank

yellow | blue-white | closer | gas

2. Fill in the blanks.

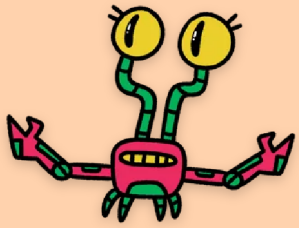
1. Stars are made of hot, glowing _____.
2. Our sun is a _____ star.
3. The hottest stars are _____.
4. The sun looks bigger than other stars because it is _____.

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SCIENCE · STARS AND CONSTELLATIONS · GRADES 2–5

Night Sky Journal

Look at the night sky five times: is the moon out, how many stars can you count and what did you notice?



Name: _____ **Date:** _____

Place I looked _____ **Grown-up with me** _____

Night	Date and time	Is the moon out?	Stars I counted	What I noticed
1				
2				
3				
4				
5				

Draw the best part of the sky you saw.

Art © Kevin Coulston

ANSWER KEY · STARS AND CONSTELLATIONS · GRADES 2–5

Answer Key: Stars: True or False?

Answers for grown-ups. Some questions have more than one good answer.



Circle True or False.

Stars are giant balls of hot, glowing gas.	**True**	False
The sun is the closest star to Earth.	**True**	False
Stars are only in the sky at night.	True	**False**
Stars twinkle because moving air bends their light.	**True**	False
Some stars are much bigger than our sun.	**True**	False
Shooting stars are stars falling to Earth.	True	**False**
People have counted every star in the sky.	True	**False**
Stars last forever and never change.	True	**False**

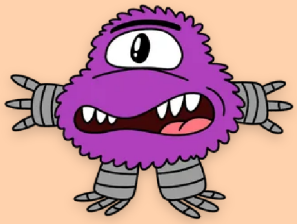
Pick two false sentences and fix them so they are true.

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ANSWER KEY · STARS AND CONSTELLATIONS · GRADES 3–5

Answer Key: Space Words

Answers for grown-ups. Some questions have more than one good answer.



1. Draw a line from each word to its meaning.

constellation	a group of stars that makes a picture
galaxy	a huge group of billions of stars
Milky Way	the galaxy our solar system is in
telescope	a tool that makes faraway things look closer
astronomer	a scientist who studies stars and space
light-year	how far light travels in one year

2. Circle the answer.

Stars look tiny to us because they are

very small · **very far away** · very cold

To look at a faraway star, an astronomer uses a

microscope · **telescope** · thermometer

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ANSWER KEY · STARS AND CONSTELLATIONS · GRADES 3–5

Answer Key: Star Colors

Answers for grown-ups. Some questions have more than one good answer.



Stars come in different colors. The hottest stars glow **blue-white**. Cooler stars glow **yellow**, then **orange**, and the coolest glow **red**. Our sun is a medium-size yellow star. It looks bigger and brighter than other stars only because it is much closer to us.

1. Number the star colors from hottest (1) to coolest (4).

3 orange

1 blue-white

4 red

2 yellow

Word bank

yellow · blue-white · closer · gas

2. Fill in the blanks.

1. Stars are made of hot, glowing **gas**.
2. Our sun is a **yellow** star.
3. The hottest stars are **blue-white**.
4. The sun looks bigger than other stars because it is **closer**.

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