

Stars

An integrated Science and ELA mini-unit based on
Common Core Performance Standards in ELA and
Georgia Performance Standards in Science.

Created By:
April Gilbert
2013 ☺





Contents

1. Anchor charts
2. Nonfiction mini-reader
3. Comprehension questions to accompany mini-reader
4. Vocabulary cards for word wall
5. "Stars" concept map (one for girls and one for boys)
6. "Stars" writing stationary (one for girls and one for boys.)
7. "Starburst" candy graph. (Be sure to buy a big bag of Starbursts and give students some in a baggie. The individual packs of Starburst have 3 of each color. Not good for graphing!)
8. "Stars" comprehension scoot with answer sheets.

Suggested Additional Literature

Stars by Martha Rustad

The Stars by Patricia Whitehouse

Stars



Question

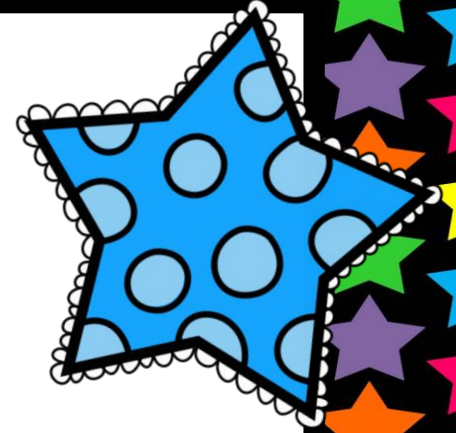
What are the characteristics of stars?

How can text features help me understand informational texts?



Standards

Language Arts



I can...

Ask and answer questions to show I understand the key details in a text.

Know and use various text features to understand a text.

Identify the main purpose of a text.

Standards

Science

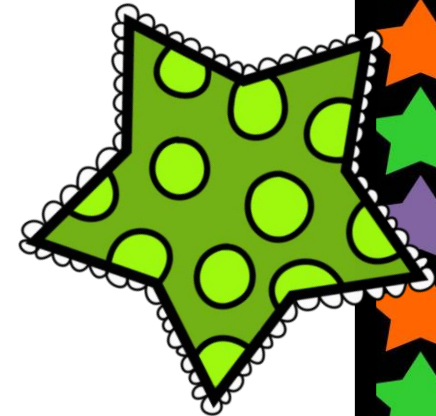
I can...

Describe the size, brightness, and patterns of stars.



Nonfiction Text Features

table of contents
glossary
titles and subtitles
bold, italics, and underlined print
pictures and diagrams
call-outs and fact boxes
electronic menus



Informational Text

The author's purpose in an informational text is to answer questions or explain concepts.

The author is trying to teach the audience about something.



6.

Glossary

constellation- a group of stars that make a picture or shape in the sky.

explode- to blow up.

galaxies- large clusters of stars.

nebula- a cloud of gas in space where new stars are formed.

stars- balls of hot, burning gases in the sky.

sun- the star closest to the Earth.

supernova- the explosion of a very big star.

telescope- a piece of equipment scientists use to see objects that are very far away.

temperature- how hot or cold an object is.



Super Stars

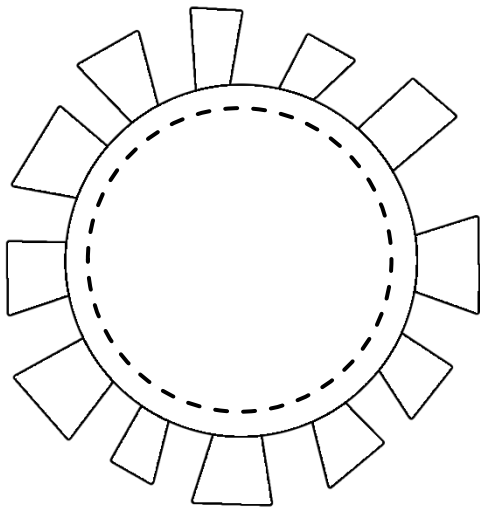


By April Gilbert 2013 ©

1.

What are stars?

Stars are balls of hot gases. There are many stars in the sky. It looks like stars are small, but they are really very big. Stars are round. The sun is the star closest to the Earth, and that is why the sun looks so big. Even though the sun is the closest star to Earth, it is still millions of miles away.



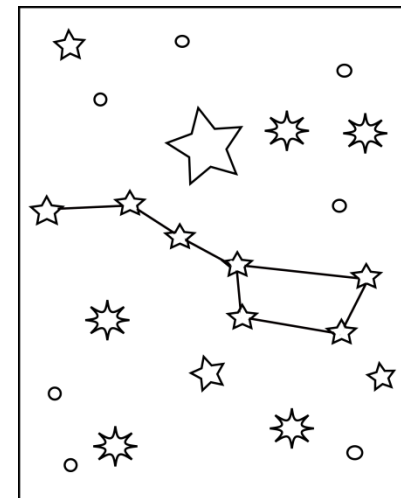
The other stars look tiny because they are very far away from Earth.

6.

Constellations

A long time ago, people looked into the night sky and began to see shapes and pictures in the stars. They gave the shapes names and created stories to tell about the shapes. Every shape has a story behind it.

The stars that form pictures or shapes are called constellations. When you look up at the stars can you see different pictures or shapes?



5.

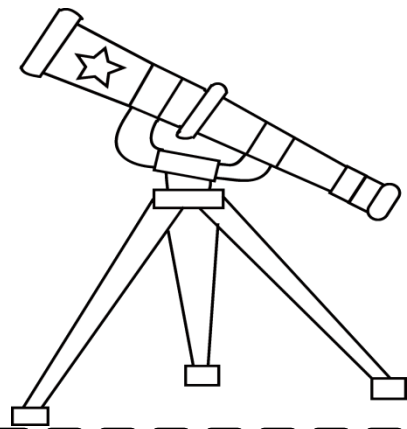
Galaxies

Groups of stars are called galaxies.

Our sun and the other stars around our planet make up the Milky Way galaxy.

There are many galaxies in space. Scientists can see some of them with telescopes, but some of them are too far away for us to see from Earth. Galaxies can be large or small.

The scientist Galileo was one of the first people to look through a telescope and see all of the many stars in our galaxy.

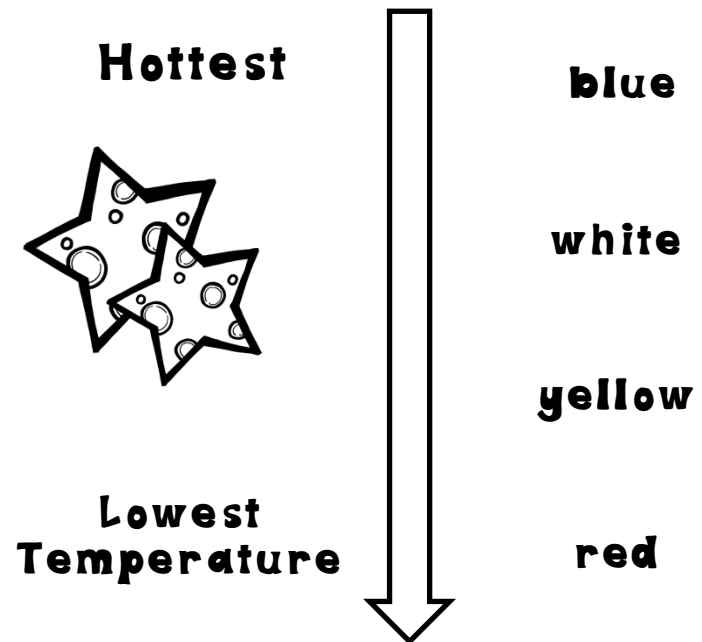


2.

The Colors of Stars

Stars may all look the same color to us, but they can be different colors. A star's color depends on its temperature. An object's temperature is how hot or cold it is.

Stars can be white, red, yellow, or blue. Red stars have the lowest temperature. Yellow stars are warmer than red. White stars are warmer than yellow, and blue stars are the hottest.

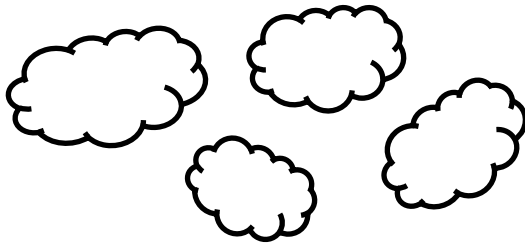


3.

The Life of a Star

There are many clouds of gas floating around in outer space. A cloud of gas is called a nebula. When these clouds begin pressing together they get very hot and begin to make light. This is how a star is formed. It takes millions of years for a star to be made.

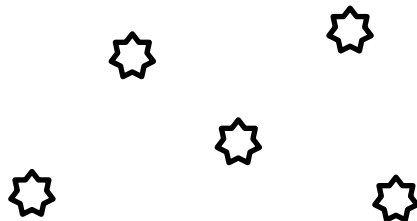
**Clouds
of
Gas**



Nebula



**New
Stars**



4.

The clouds of gas that make up a star contain energy. The energy begins to change after billions of years.

Sometimes small stars lose gas and become smaller and smaller. They become white dwarfs. When they lose too much gas and begin to die, they may join together to make a nebula.

Large stars often explode when they die. This explosion is called a supernova.



Fun Fact

A shooting star is not really a star at all! It is just a meteor entering the Earth's atmosphere!

Stars

Name _____ Date _____

1. What are stars? _____

2. How can scientists tell which stars are the hottest? _____

3. What colors are stars? _____

4. Describe how a star is born. _____

5. How do stars die? _____

6. What is a galaxy? _____

7. Why does the sun look larger to us than all the other stars? _____

8. What is a shooting star? _____

9. In what galaxy is Earth? _____

constellation

star

galaxy

nebula

energy

telescope

supernova

explode

Stars are...

Stars are not...

Example

Picture



Stars

Stars change...

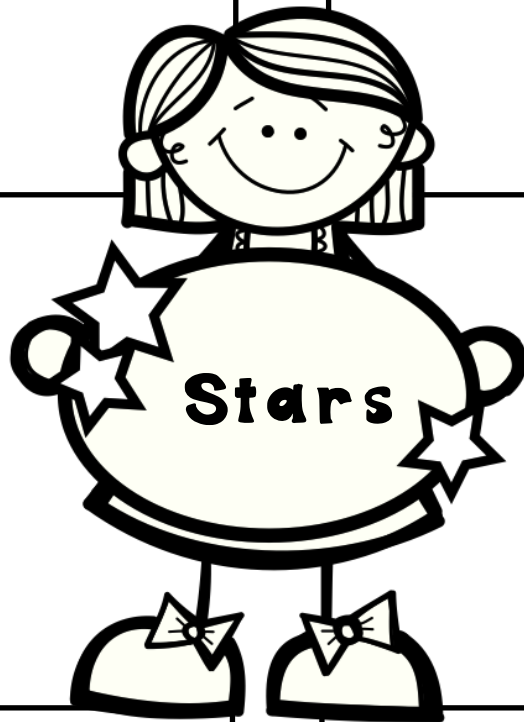
Stars look...

Stars are...

Stars are not...

Blank space for writing about stars.

Blank space for writing about stars.



Example

Blank space for an example.

Picture

Blank space for a picture.

Stars change...

Blank space for writing about how stars change.

Stars look...

Blank space for writing about how stars look.

Stars

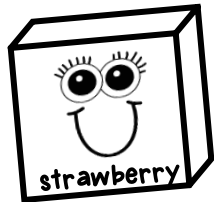


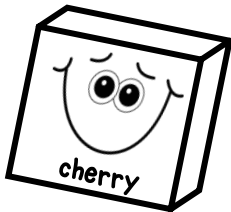
Stars

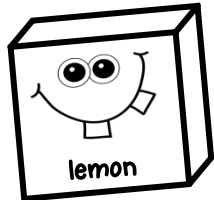


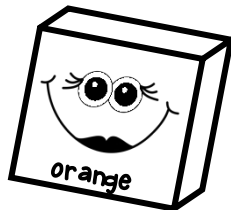
Starburst Graphing

Tally

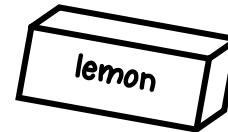
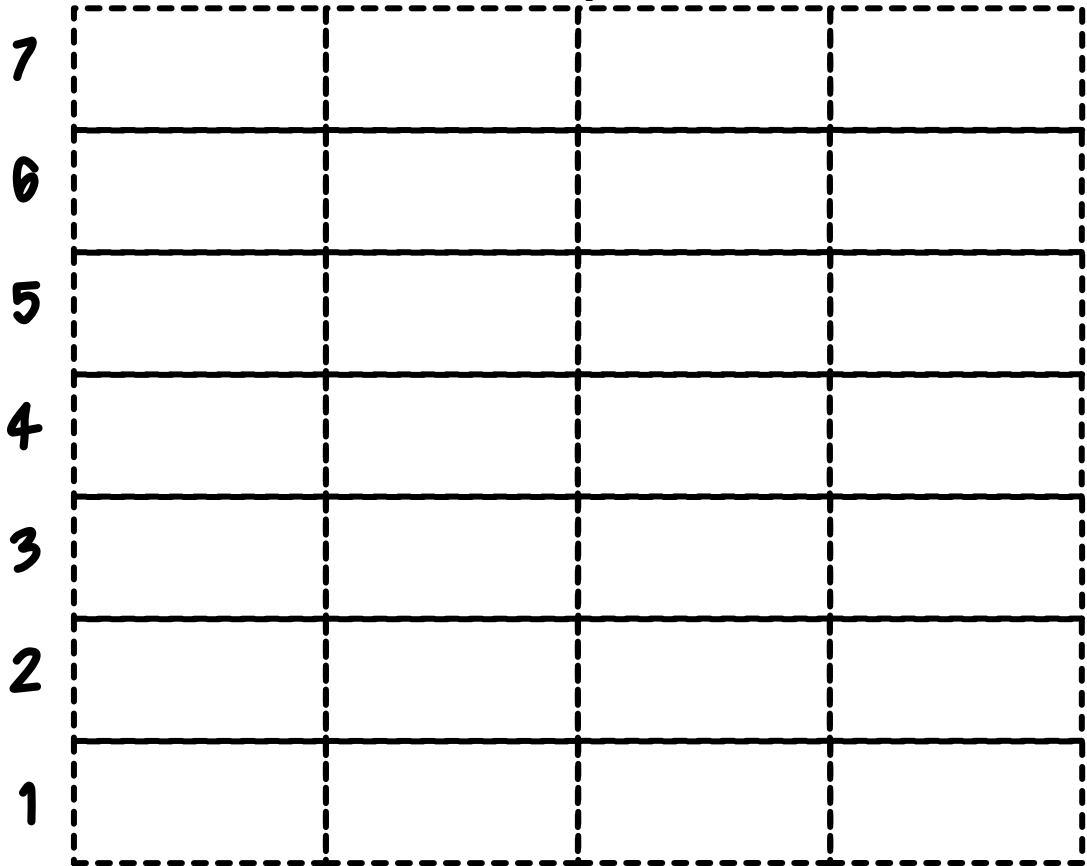




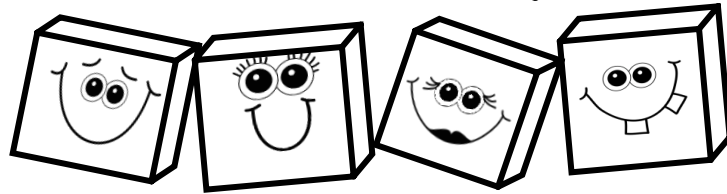




Graph



Time to Interpret!



1. How many pieces of candy are represented on the graph? _____

2. Which flavor do you have the most of? _____

3. Which flavor do you have the least of? _____

4. Write a subtraction sentence with the answers from #2 and #3.

$$\underline{\hspace{2cm}} - \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

5. How many cherry and orange Starburst candies do you have?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

6. How many lemon, strawberry, and orange Starburst candies do you have?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

7. Do you have an equal amount of any flavors? _____

If so, what are they? _____

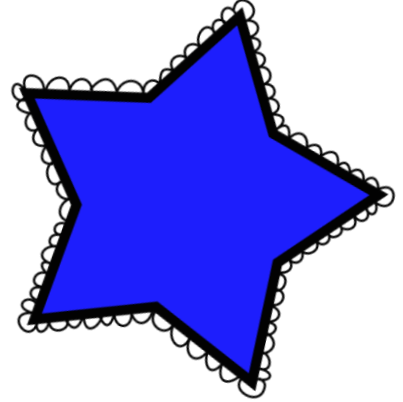
8. What is your favorite flavor? _____

9. How many do you have of your favorite flavor? _____

10. Write a math sentence that is true about your graph.

1. Which sentence is true about stars?

- A. Stars are small planets.
- B. Stars are all the same color.
- C. Stars are balls of gases.



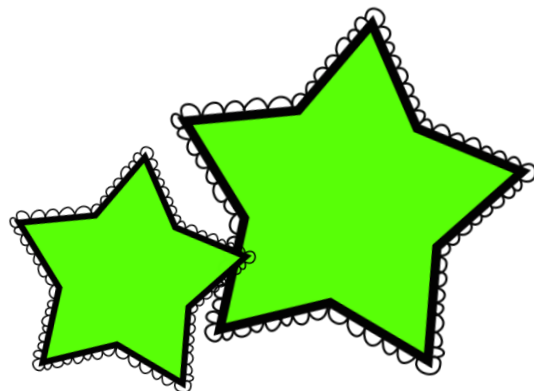
2. What is the star closest to Earth?

- A. Sun
- B. Moon
- C. Orion



3. What color are the hottest stars?

- A. white
- B. yellow
- C. blue



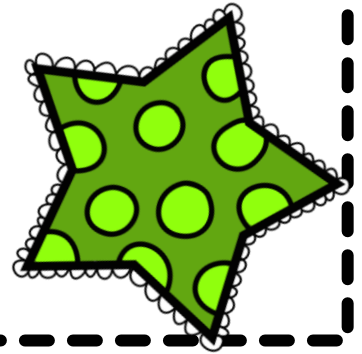
4. What is a nebula?

- A. a cloud of gas in space
- B. an explosion
- C. a black hole



5. When clouds of gas in space join together and get very hot what can happen?

- A. a comet can form
- B. a star can form
- C. a star can die



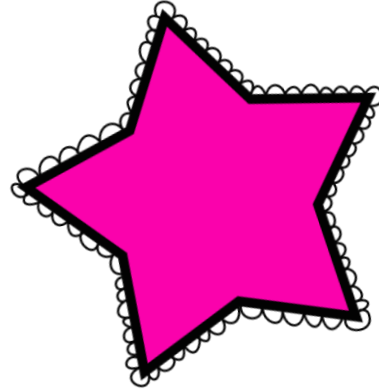
6. What do we call stars that form a picture in the sky?

- A. nebulas
- B. constellations
- C. gases



7. What happens when some stars die?

- A. They fall to the Earth.
- B. They turn into ashes.
- C. They explode.



8. What is a galaxy?

- A. a large planet
- B. a group of moons
- C. a cluster of stars



9. Why does the sun look bigger than all the other stars?

- A. It is closest to the Earth.
- B. It is much bigger than other stars.
- C. It makes more light than the other stars.



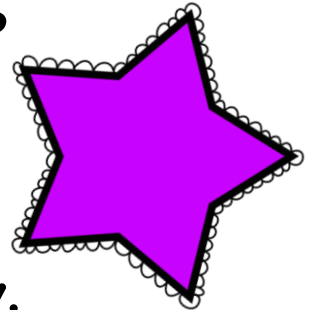
10. What galaxy is the Earth in?

- A. The Big Dipper
- B. The Milky Way
- C. The Neptune



11. What is not true about stars?

- A. Stars can die.
- B. There are billions of stars in the sky.
- C. Stars are shaped like hexagons.



12. What instrument do scientists use to see stars that are far away?

- A. telescope
- B. microscope
- C. magnifying glass



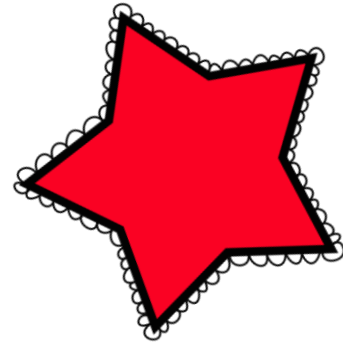
13. What are shooting stars?

- A. Stars that are about to die.
- B. Meteors entering the Earth's atmosphere.
- C. Pieces of stars that have broken off.



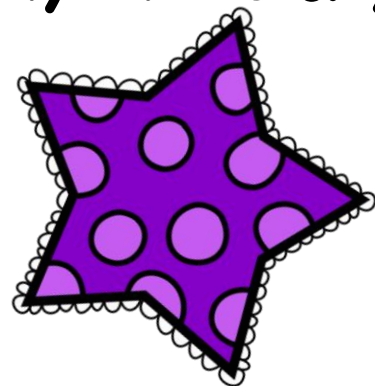
14. What is the explosion of a star called?

- A. Superstar
- B. Constellation
- C. Supernova



15. Why do most stars look tiny in the sky?

- A. They are very far away.
- B. They are baby stars.
- C. They are very dim.



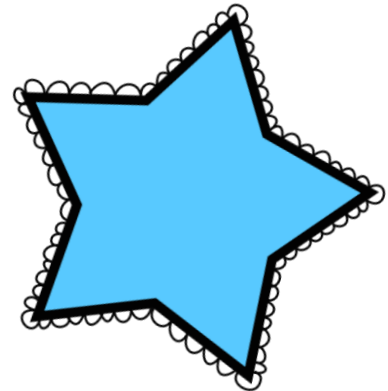
16. Who was one of the first scientists to use a telescope to study the stars?

- A. Galileo
- B. Neil Armstrong
- C. Ben Franklin



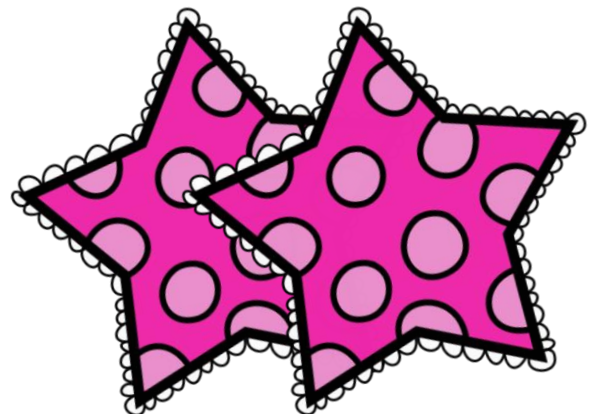
17. An object's _____ is how hot or cold the object is.

- A. shape
- B. temperature
- C. size



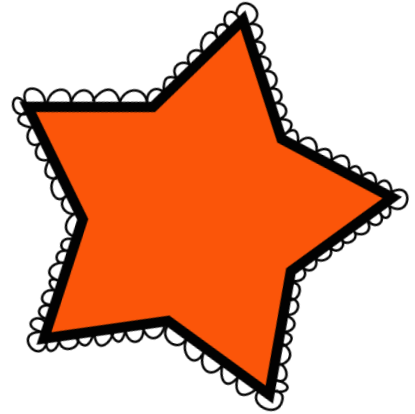
18. How long does it take for a star to form?

- A. a hundred years
- B. 365 days
- C. millions of years



19. What color are stars that have the lowest temperature?

- A. blue
- B. red
- C. yellow



20. What color can a star not be?

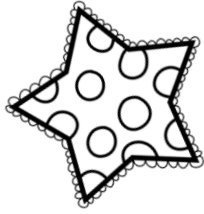
- A. purple
- B. white
- C. blue



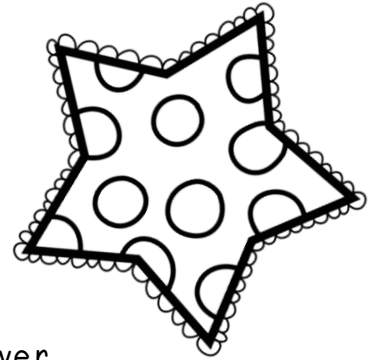
21. What is something a star contains?

- A. water
- B. energy
- C. crystals





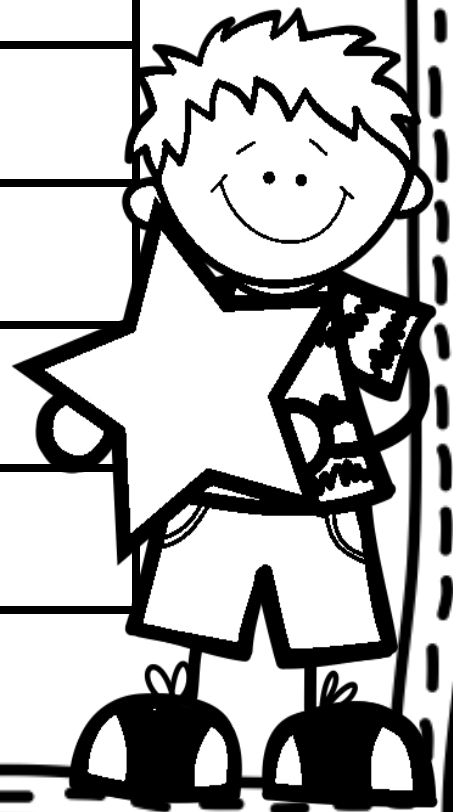
Stars

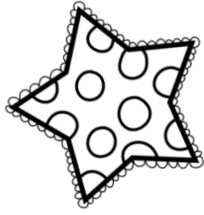


Information Story Scoot

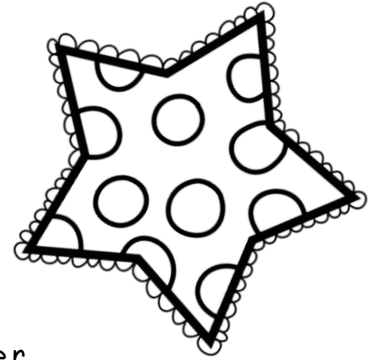
Read each question and choose the correct answer.
Write the letter of the correct answer in each box below.

1.	2.	3.
4.	5.	6.
7.	8.	9.
10.	11.	12.
13.	14.	15.
16.	17.	18.
19.	20.	21.
Name _____		





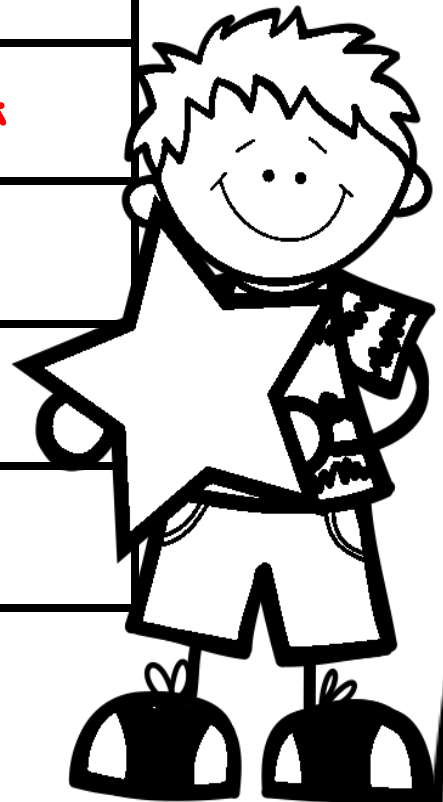
Stars



Answers

Read each question and choose the correct answer.
Write the letter of the correct answer in each box below.

1. C	2. A	3. C
4. A	5. B	6. B
7. C	8. C	9. A
10. B	11. C	12. A
13. B	14. C	15. A
16. A	17. B	18. C
19. B	20. A	21. B
Name		

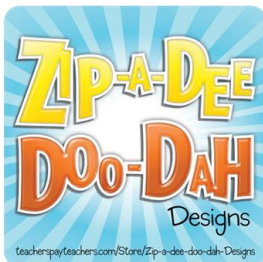


Thank You!

For purchasing my activity pack!

I hope your students enjoy it!

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