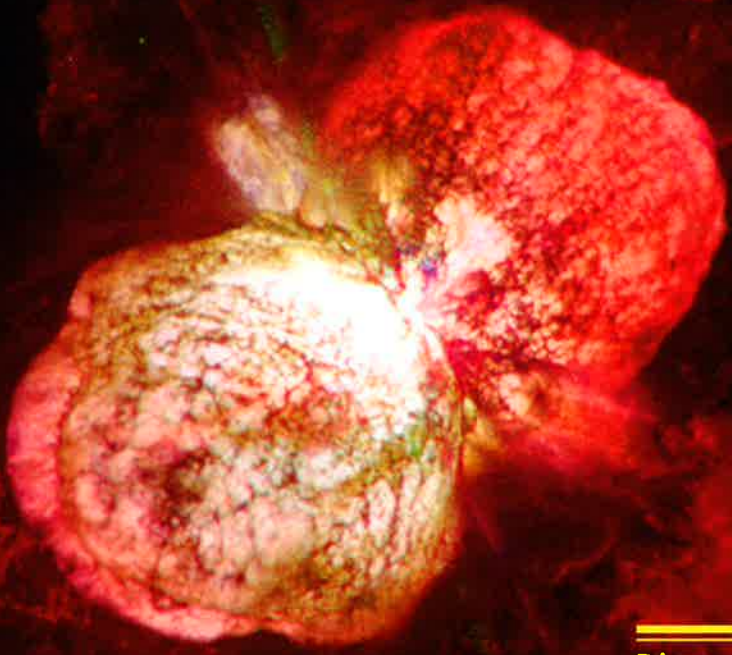
BRIDGES™

Life of a Star





Discover how stars are born. Find out why they die.

STACIA DEUTSCH AND RHODY COHON

Benchmark EDUCATION

SCIENCE
The Universe
Level 40 R

For teachers' inspection ONLY

READING

Comprehension Skill:
Identify Sequence of Events

As you read this book, look for events that happen in a certain order. Be sure to look for clues that will help you identify the order.

Phonics/Word Study:
Comparatives

As you read, look for comparatives, like **fewer** and **largest**. Comparatives describe how people, places, and things differ.

Look for these text and graphic features.

Text Features

- Table of contents
- Introduction
- Sidebars
- Conclusion
- Glossary
- Index
- Information about the author
- Vocabulary words in boldfaced type
- Captions for photos, diagrams, and illustrations
- Checkpoints. Check yourself to see that you understand what you have read. Pages 8, 30

Graphic Features

- Photographs
- Table. Pages 4–5
- Chart. Page 17
- Labeled diagrams. Pages 3, 10, 18, 27

SCIENCE

The Big Idea:

The stars have interested people for centuries. Stars have been used to predict the future, tell stories, and as navigation tools. Astronomers have learned a great deal about stars. As you read this book, you will learn how stars are formed, what they are like during their main sequence stage, and how stars finally fade from the sky.

Look for these special information features.

Content Sidebars

- It's a Fact. Pages 4, 22
- Math Matters. Pages 7, 17
- Historical Perspective. Pages 8, 15
- Everyday Science. Pages 5, 9
- Careers. Page 6
- They Made a Difference. Page 27
- In Their Own Words. Page 20
- Eyewitness Account. Page 25

Content Vocabulary

asteroid
astronomer
bipolar outflow
galaxy
gravity
main sequence
nebula
nuclear fusion
protoplanetary disc
protostar
spectral class
spicule
stable equilibrium
supernova
white dwarf

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Life of a Star

BY STACIA DEUTSCH AND RHODY COHON

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CHAPTER 3 Death of a Star 18

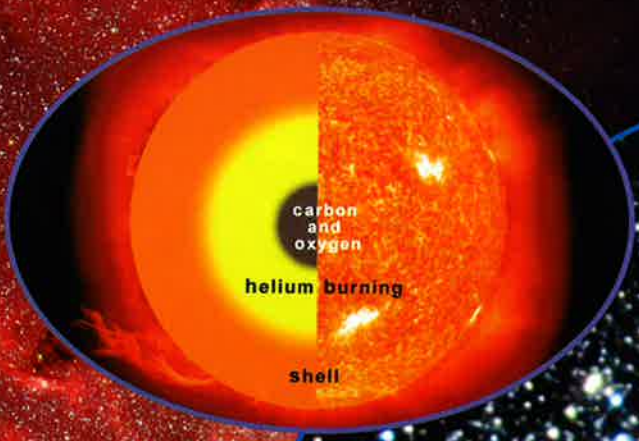
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Pictures To Think About

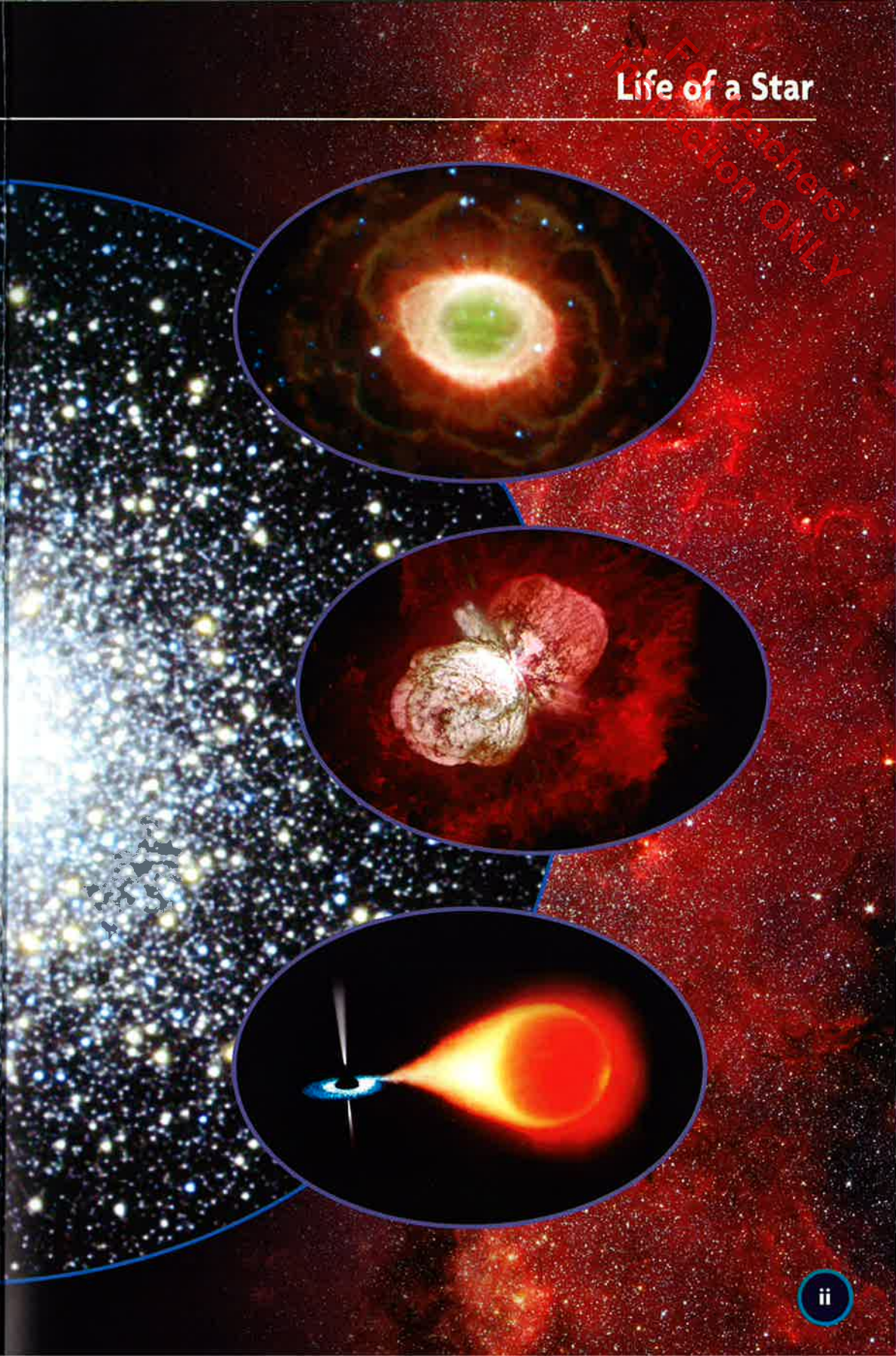
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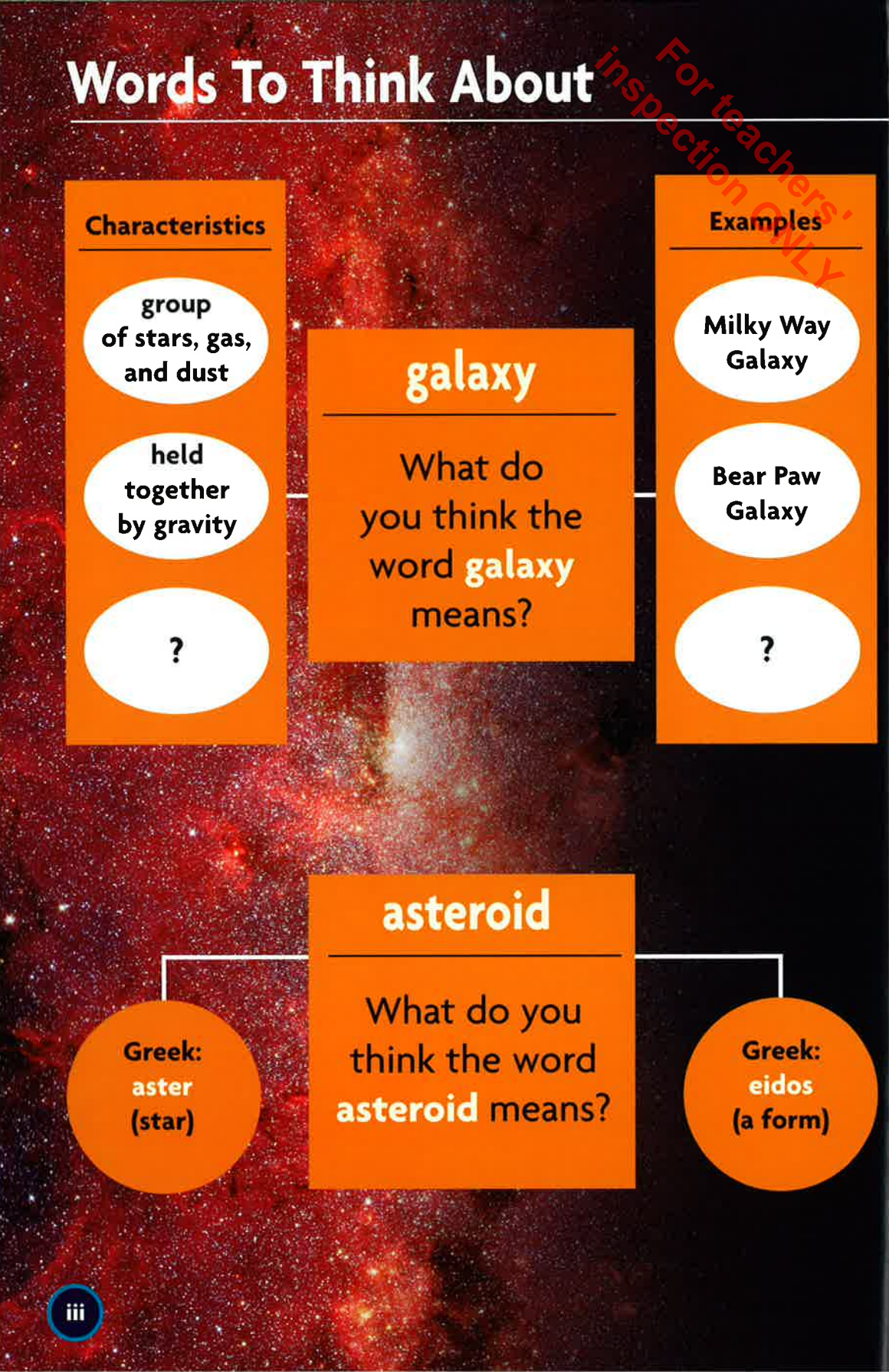


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Words To Think About

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Read for More Clues
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galaxy, page 3
spectral class, page 4

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spectral class

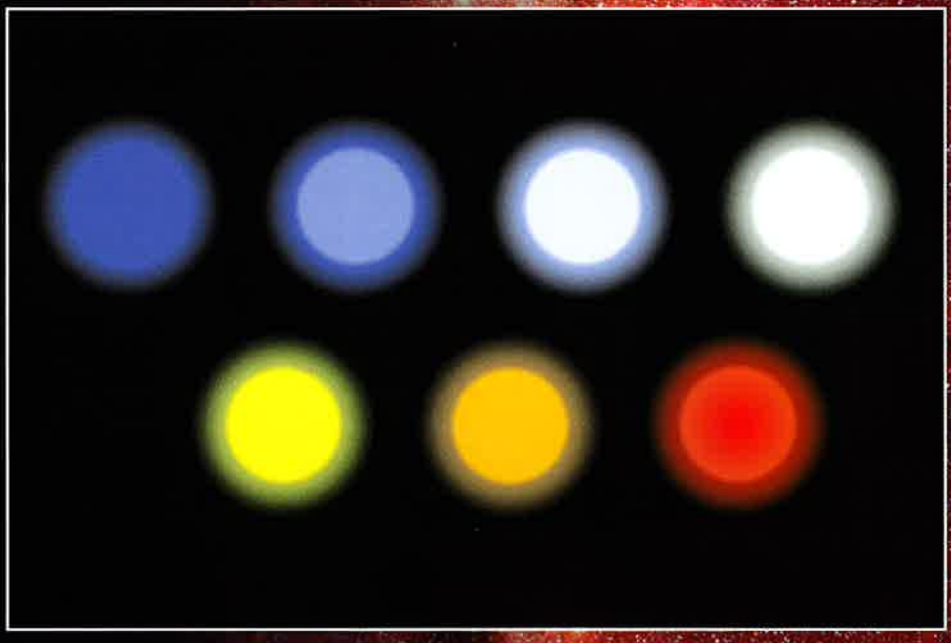
What do you think the term **spectral class** means?

What is spectral class?

way to sort stars | ? | seven types in all

What is spectral class based on?

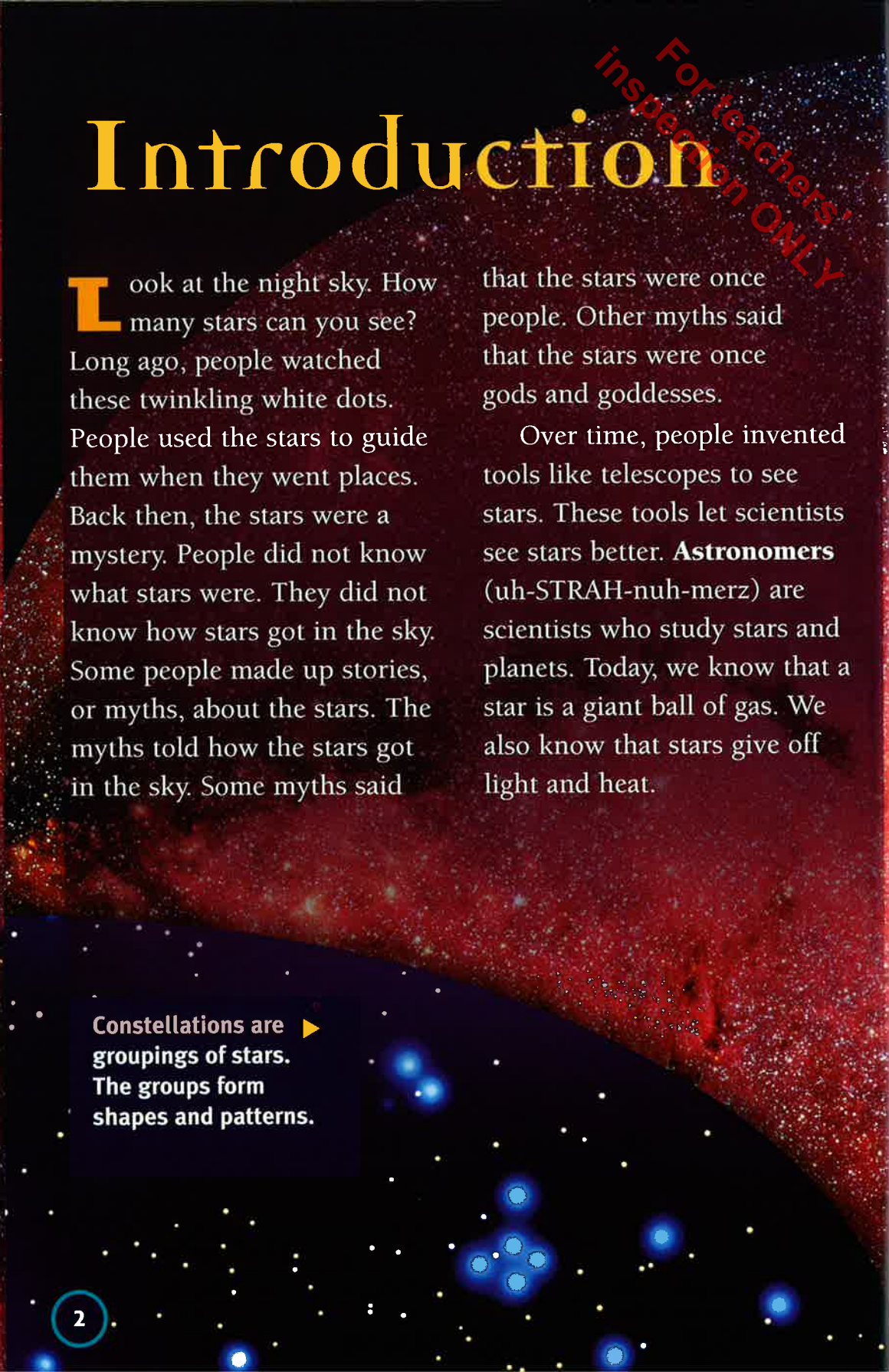
color | ? | temperature



Introduction

Look at the night sky. How many stars can you see? Long ago, people watched these twinkling white dots. People used the stars to guide them when they went places. Back then, the stars were a mystery. People did not know what stars were. They did not know how stars got in the sky. Some people made up stories, or myths, about the stars. The myths told how the stars got in the sky. Some myths said that the stars were once people. Other myths said that the stars were once gods and goddesses.

Over time, people invented tools like telescopes to see stars. These tools let scientists see stars better. **Astronomers** (uh-STRAH-nuh-merz) are scientists who study stars and planets. Today, we know that a star is a giant ball of gas. We also know that stars give off light and heat.



Constellations are groupings of stars. The groups form shapes and patterns.

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