Stars and Brightness

Name: _____ Date: _____ Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. How bright a star looks from Earth is called its _____ brightness.
2. A star can look brighter because it is closer or because it is _____ .
3. The hottest stars usually glow with a _____ color.
4. Our Sun is a medium-temperature star that glows _____ .
5. The coolest visible stars look _____ in color.
6. A pattern of stars that forms a picture in the sky is called a _____ .
7. Two stars can give off the same light, but the _____ one looks dimmer from Earth.
8. The actual amount of light a star produces is its _____ brightness.
9. Stars appear to move across the night sky because Earth _____ .

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Blue star	→ _____	Hottest surface temperature
Yellow star	→ _____	Medium temperature like the Sun
Red star	→ _____	Coolest of visible stars
Constellation	→ _____	Pattern of stars forming a picture

Answer Key · Stars and Brightness · Grade: Grade 5

Part A: Fill in the Blank

Write the missing word or number on each line.

1. How bright a star looks from Earth is called its **apparent** brightness.
2. A star can look brighter because it is closer or because it is **bigger** .
3. The hottest stars usually glow with a **blue** color.
4. Our Sun is a medium-temperature star that glows **yellow** .
5. The coolest visible stars look **red** in color.
6. A pattern of stars that forms a picture in the sky is called a **constellation** .
7. Two stars can give off the same light, but the **farther** one looks dimmer from Earth.
8. The actual amount of light a star produces is its **actual** brightness.
9. Stars appear to move across the night sky because Earth **rotates** .

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Blue star	→ **Hottest surface temperature**	Hottest surface temperature
Yellow star	→ **Medium temperature like the Sun**	Medium temperature like the Sun
Red star	→ **Coolest of visible stars**	Coolest of visible stars
Constellation	→ **Pattern of stars forming a picture**	Pattern of stars forming a picture