

CHARACTERISTICS OF STARS

Like the Sun, all **stars** are huge spheres of glowing gas. They are made up mostly of hydrogen and some helium, and they produce their energy by nuclear fusion. **Nuclear fusion** is the process where two atoms of hydrogen fuse together to form an atom of helium. This process releases a tremendous amount of energy and makes stars shine brightly. Astronomers classify stars according to their physical characteristics. These include:

1. Color
2. Temperature
3. Size
4. Brightness

A. Color and Temperature

If you look up in the night sky, you can see slight differences in the colors of stars. Like hot objects on Earth, a star's color reveals its surface temperature. If you watch a toaster heat up, the wires inside glow red hot. The wires inside a light bulb are even hotter and glow white. Stars are the same. The coolest stars, with a surface temperature of about $3,000^{\circ}\text{C}$ appear reddish. The hottest stars, with surface temperatures over $20,000^{\circ}\text{C}$ appear bluish-white.

B. Size

The stars in the sky all appear to be points of light of the same size. Many stars are actually the same size of the Sun, which is a medium-sized star. However, some stars are much larger and are called **giant** and **supergiant** stars. Most stars are much smaller than the Sun. Black and white **dwarf stars** are about the size of Earth. **Neutron stars** are even smaller, only about 20 km in diameter.



C. Brightness

The brightness of a star depends on both its size and its temperature. How bright a star looks from Earth depends on both its distance and how bright the star actually is. The brightness of a star can be described in 2 different ways: apparent brightness and absolute brightness. A star's **apparent brightness** is its brightness as seen from Earth. Astronomers can measure apparent brightness easily, using devices similar to those used by photographers. However, apparent brightness does not take into account how far away a star is from Earth. A star's **absolute brightness** is the brightness the star would have if all stars were the same standard distance from Earth. This allows astronomers to compare the brightness of all stars.



Distances on Earth are often measured using kilometres and miles. However, distances between stars are so large that kilometres are not very practical units. Astronomers use a unit called the **light-year** to measure the distance between stars. A light year is the distance that light travels in one year, which is roughly 9.5 million million kilometres.

Novel Stars Answers For Physical Science

Sir Norman Lockyer

Novel Stars Answers For Physical Science:

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A Directory of Information Resources in the United States: Physical Sciences, Engineering National Referral Center (U.S.),1971

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Table of Contents Novel Stars Answers For Physical Science

1. Understanding the eBook Novel Stars Answers For Physical Science
 - The Rise of Digital Reading Novel Stars Answers For Physical Science
 - Advantages of eBooks Over Traditional Books
2. Identifying Novel Stars Answers For Physical Science
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Novel Stars Answers For Physical Science
 - User-Friendly Interface
4. Exploring eBook Recommendations from Novel Stars Answers For Physical Science
 - Personalized Recommendations
 - Novel Stars Answers For Physical Science User Reviews and Ratings
 - Novel Stars Answers For Physical Science and Bestseller Lists
5. Accessing Novel Stars Answers For Physical Science Free and Paid eBooks
 - Novel Stars Answers For Physical Science Public Domain eBooks
 - Novel Stars Answers For Physical Science eBook Subscription Services
 - Novel Stars Answers For Physical Science Budget-Friendly Options

6. Navigating Novel Stars Answers For Physical Science eBook Formats
 - ePUB, PDF, MOBI, and More
 - Novel Stars Answers For Physical Science Compatibility with Devices
 - Novel Stars Answers For Physical Science Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Novel Stars Answers For Physical Science
 - Highlighting and Note-Taking Novel Stars Answers For Physical Science
 - Interactive Elements Novel Stars Answers For Physical Science
8. Staying Engaged with Novel Stars Answers For Physical Science
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Novel Stars Answers For Physical Science
9. Balancing eBooks and Physical Books Novel Stars Answers For Physical Science
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Novel Stars Answers For Physical Science
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Novel Stars Answers For Physical Science
 - Setting Reading Goals Novel Stars Answers For Physical Science
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Novel Stars Answers For Physical Science
 - Fact-Checking eBook Content of Novel Stars Answers For Physical Science
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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