

EVOLUTION OF STARS

After 10 billion years, the small star will run out of hydrogen and starts fusing helium, which causes the star to expand to a red giant

Planetary Nebula

After the star runs out of helium, the star will try to combine carbon, which the star can't combine. So the gas spreads apart from the star leaving behind a carbon dense white dwarf.

Small Star

Red Giant

White Dwarf

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When the white dwarf runs out of its remaining energy, it loses its brightness and becomes a brown dwarf.

After the star explodes, the star can do two different things based on its size

1. It can form a very dense NEUTRON STAR
2. It can form the most densest object in the universe, a BLACK HOLE

Supernova

When a massive star runs out of hydrogen, it expands and will make all kind of elements until it starts forming Iron

When it has only iron left, gravity will collapse the star until it explodes from the pressure

Red Supergiant

Large Star

Neutron Star

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When it has only iron left, gravity will collapse the star until it explodes from the pressure

Black Hole

Stellar Cloud with Protostars

IMAGES NOT TO SCALE

Stellar Evolution Study Guide

Will Marchment



Stellar Evolution Study Guide:

Barron's Science 360: A Complete Study Guide to Physics with Online Practice Barron's Educational Series, Kenneth Rideout, 2021-09-07 Barron's Math 360 Physics is your complete go to guide for everything physics This comprehensive guide is an essential resource for High school and college courses Homeschooling Virtual Learning Learning pods Inside you'll find Comprehensive Content Review Begin your study with the basic building blocks of physics and build as you go Topics include motion forces electricity magnetism and introduction to nuclear physics and much more Effective Organization Topic organization and simple lesson formats break down the subject matter into manageable learning modules that help guide a successful study plan customized to your needs Clear Examples and Illustrations Easy to follow explanations hundreds of helpful illustrations and numerous step by step examples make this book ideal for self study and rapid learning Practice Exercises Each chapter ends with practice exercises designed to reinforce and extend key skills and concepts These checkup exercises along with the answers and solutions will help you assess your understanding and monitor your progress Access to Online Practice Take your learning online for 50 practice questions designed to test your knowledge with automated scoring to show you how far you have come

Observer's Guide to Stellar Evolution Mike Inglis, 2012-12-06 Stellar evolution the birth development and death of stars is central to our current understanding of astronomy but surprisingly the majority of amateur astronomers lack a full understanding of the physics of stars Current books on the market tend to be highly theoretical and off putting in *Observer's Guide to Stellar Evolution* Mike Inglis brings this subject to life in a unique way By combining a step by step introduction with suggestions for practical observations of stars at different stages in their evolution amateur astronomers regardless of their current level of knowledge will find this book fascinating and informative Accessible to every amateur astronomer regardless of background knowledge Step by step introduction to the theory of stellar evolution Includes many examples of stars at different stages in their evolution that the reader can observe for him herself Mathematics is made accessible by being presented in boxes that readers can skip over if they prefer

A Study Guide for Arthur C. Clarke's "Dog Star" Gale, Cengage Learning, **Excel Science Study Guide, Years 9-10** Will Marchmont, 2004 The book contains coverage of five major topic areas in the NSW School Certificate test Energy Force and Motion Atoms Elements and Compounds Structure and Function of Living Things Earth and Space Ecosystems Resources and Technology a chapter on Investigations and Problem Solving in Science to help with practical skills revision questions and chapter tests to help you remember important information a glossary and summary in each section of the book diagrams and illustrations to help your understanding a section to help you prepare for the School Certificate test a sample School Certificate test paper with answers answers to all questions

Study Guide for Physics in the Modern World 2E Jerry Marion, 2012-12-02 Study Guide for Physics in the Modern World 2E provides information pertinent to the fundamental concepts in physics This book presents a list of concepts definitions and equations with various supplementary exercises for

the readers Comprised of 21 chapters this book starts with an overview of the standard units of measure for length time mass energy force pressure and density This text then provides the meaning of various terms in physics including atom molecule element and compound Other chapters explore the composition and behavior of all ordinary matter in which it depends on the four basic units including electrons protons neutrons and photons This book discusses as well the method used for converting the units of physical quantities from one system of measurement to another The final chapter deals with the various applications of radiation in biological investigations as well as in medical diagnostics and therapeutics This book is intended for students enrolled in introductory physics courses

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