

Name: Michaela Huber

Date:                     

Class: Physical Sciences

## Physical Sciences Chapter 10: Heat, Thermal Energy and Work

### Multiple Choice

1. Two heat engines are operating at different heat rates.  
a. **irrelevant**  
b. irrelevant  
c. always the same  
d. always the same
2. Energy added to a system  
a. **increases the system's internal energy**  
b. reduces the system's internal energy  
c. is converted to work  
d. increases the kinetic energy of the system
3. When a definite quantity of heat is added to an object,  
a. **temperature will rise in it**  
b. temperature is not due to motion  
c. there will be 100% efficiency  
d. **it takes longer for temperature to rise**
4. A heat engine transforms thermal energy mainly by  
a. **compression**  
b. expansion  
c. expansion  
d. expansion
5. Compression of a gas is  
a. **compression**  
b. expansion  
c. expansion  
d. expansion
6. Why does heat flow out of a thermodynamic system?  
a. **compression**  
b. expansion  
c. expansion  
d. expansion
7. Which statement is NOT true about heat engines?  
a. **all engines are 100% efficient**  
b. all engines are 100% efficient  
c. **all engines are 100% efficient**  
d. **all engines are 100% efficient**
8. Which of the following is a thermal engine?  
a. **engine**  
b. engine  
c. engine  
d. engine

# Physical Science Chapter 16 Test

**Robert Lambourne, Michael Tinker**



## Physical Science Chapter 16 Test:

*Teaching of physical science* Swati Tyagi, 2024-04-29 The book titled teaching of Physical Science is a complete text cum reference book for all the science pupil teachers who are pursuing their B Ed in any teacher training institutes This book includes all the latest prescribed contents It highlights the methodologies strategies and techniques for teaching physical sciences It focuses on the main points for preparing lesson plans and micro lesson plans A sufficient emphasis has been given to the pedagogical analysis with various examples It also includes the latest concept of NEP 2020 including holistic development and experiential learning This book also covers the latest blended learning teaching strategy and online learning that had been prevalent during COVID time If any suggestion for the improvement of the contents will be appreciated Feedback about the book can be given on st18tyagi gmail com

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**Basic Mathematics for the Physical Sciences** Robert Lambourne, Michael Tinker, 2000-04-07 This textbook provides a thorough introduction to the essential mathematical techniques needed in the physical sciences Carefully structured as a series of self paced and self contained chapters this text covers the basic techniques on which more advanced material is built Starting with arithmetic and algebra the text then moves on to cover basic elements of geometry vector algebra differentiation and finally integration all within an applied environment The reader is guided through these different techniques with the help of numerous worked examples applications problems figures and summaries The authors provide high quality and thoroughly class tested material to meet the changing needs of science students The book is a carefully structured text with self contained chapters Gradually introduces mathematical techniques within an applied environment Includes many worked examples applications problems and summaries in each chapter This text is an essential resource for all students of physics chemistry and engineering needing to develop or refresh their knowledge of basic mathematics The book's structure makes it equally valuable for course use home study or distance learning

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*Holt Physical Science* Mapi M. Cuevas, 1994      *The Philosophy of Physical Science* Sir Arthur Eddington, 2021-03-17 It is often said that there is no philosophy of science but only the philosophies of certain scientists But in so far as we recognize an authoritative body of opinion which decides what is and what is not accepted as present day physics there is an ascertainable present day philosophy of physical science It is the philosophy to which those who follow the accepted practice of science stand committed by their practice This book contains the substance of the course of lectures which the author Eddington delivered as Tarner Lecturer of Trinity College Cambridge in the Easter Term 1938 The lectures have afforded him an opportunity of developing more fully than in his earlier books the principles of philosophic thought

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### **Physical Science Chapter 16 Test Introduction**

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