

1. What is a wave? _____
2. What is the name of a wave that requires a medium? _____
3. Identify the type of medium for each of the following waves:
 - a. Ripples on a pond _____
 - b. Sound waves from a stereo speaker _____
 - c. Seismic waves _____
4. Name the one kind of wave that does not require a medium. _____
5. Explain why music becomes less loud the farther away you get from the speaker. (Think about wave fronts and energy) _____

6. What are most waves caused by? _____
7. Fill in the blanks in the table about waves

Type of wave	Direction of the particle motion in the medium	Example of type of wave
Transverse Wave	8.	9.
Longitudinal Wave	10.	11.

12. Explain the difference between transverse and longitudinal waves. _____

13. What is the shape of an ideal transverse wave? _____
14. Draw a sine wave on the back of this paper and label the following parts on your drawing: wavelength, crest, trough, amplitude
15. What is the period of a wave and what are the SI units? _____

16. What is the frequency of a wave and what are the SI units? _____

17. Write the 7 types of electromagnetic waves in order from shortest to longest wavelength. _____

18. What is the range of frequencies for microwaves? _____ For X rays? _____
19. In what medium do sound waves travel the fastest? _____
20. At what speed do all electromagnetic waves travel? _____
21. What is the Doppler effect? _____

22. Based on the Doppler effect, will the pitch of a siren traveling toward you be higher or lower? _____
Will the frequency of the sound waves from the siren be higher or lower? _____

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Yicheng Fang



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Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11
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materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents *Reading in the Content Area with Literature Connections* ,2000 **Practical English** Vicki L. Hackett,Paul C. Dalmas,1987 This book includes daily lesson plans and supplemental materials for a course in vocational English and it provides a systematic approach to instruction in writing used on the job This book is divided into two parts Part one provides lessons and materials for a course in vocational English Each chapter describes one unit in which students master a particular skill or complete a writing assignment Detailed daily plans are provided and at the conclusion of each chapter reproducible worksheets for the unit are included Part two of the book provides lessons and materials for language development **Chemical Matter** Prentice-Hall Staff,1994 Authorized teaching resource in Alberta for senior high science 14 24 1995 2004 Textbook of Physical Diagnosis E-Book Mark H. Swartz,2020-02-03 Mastering each aspect of the patient interview and physical exam is fundamental to medical education resulting in more accurate diagnostic skills more effective patient management and better patient outcomes Dr Swartz s Textbook of Physical Diagnosis is a highly respected reference in this critical area offering a compassionate humanistic approach to the art and science of interviewing and physical examination From cover to cover you

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