

## NOTES: "Physics is Phun" Quiz

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## "PHYSICS IS PHUN" QUIZ

Match the numbered item on the left with the description on the right.

- |                        |                               |                       |                                |
|------------------------|-------------------------------|-----------------------|--------------------------------|
| 1. 4 ft                | a fish                        | 36. fluid             | vicious pig belonging to a boy |
| 2. $\Delta$            | in Rome directory             | 37. area              | small Italian child            |
| 3. Gauss               | quadriped                     | 38. arc               | proclaiming oneself a fool     |
| 4. quadrilateral       | Japanese song                 | 39. $\pi c$           | destined to become mine        |
| 5. Hertz               | (Dick Cavet) (Dick Cavet)     | 40. Nobel             | inflamed swelling on skin      |
| 6. physics, physiology | end of a river                | 41. isotope           | delayed April fool's           |
| 7. $\lambda\nu$        | singular for smoked salmon    | 42. Fizeau            | device that measures taxes     |
| 8. Galileo             | part of an opera              | 43. Neutrally         | used by veterinarian to put    |
| 9. Niels Bohr          | Halloween dress               |                       | bull to sleep                  |
| 10. Fermi              | poetically old fashioned      | 44. Avogadro's #      | subconscious of cold virus     |
| 11. $\gamma$           | results in need for digel     | 45. ammeter           | Italian word for sport         |
| 12. Yukawa             | noise made by donkey          | 46. $MC^2$            | sheep in the shade             |
| 13. $\alpha\alpha$     | draft                         | 47. oscilloscope      | funny viewer                   |
| 14. $\cos(2m)$         | condition making it necessary | 48. $\lambda$         | pea as main course             |
|                        | to knock                      | 49. Brahe             | what the sun gives             |
| 15. proteins           | four football passes          | 50. millimeter        | paper on the offense           |
| 16. $\beta\rho$        | command to a dog              |                       | of God's law                   |
| 17. Boyle              | Genie                         | 51. acceleration      | command to bow                 |
| 18. $\tan(2u)$         | professional adolescents      | 52. inverse square    | truck full of statistics       |
| 19. Laplace            | pains                         | 53. frequency         | radicalization                 |
| 20. Locke              | give her more food            | 54. Coulomb           | Japanese boy                   |
| 21. Ptolemy            | inform me                     | 55. red shift         | intoxication indicator         |
| 22. steam engine       | study of effervescence        | 56. Mars              | soft drink                     |
| 23. synthesis          | beat of a wood block          | 57. Van de Graff      | baseball regulation            |
| 24. Neptune            | king's heart burn             | 58. barometer         | French for particular position |
| 25. logarithm          | release our 6th president     | 59. little chromosome | cow's food                     |
| 26. Tycho              | maryda hadda little           | 60. entropy           | wagon train defense            |
| 27. rad                | knowledgeable sheep           |                       |                                |
| 28. induction          | if you're sinking             |                       |                                |
| 29. solute             | to dent                       |                       |                                |
| 30. oxidation          | renovated streetcar           |                       |                                |
| 31. slide rule         | done in the military          |                       |                                |
| 32. Leyden             | Leo's girlfriend              |                       |                                |
| 33. matrix             | two radii minus di            |                       |                                |
| 34. ring stand         | combination of gas and liquid |                       |                                |
| 35. noble gas          | Cockney greeting              |                       |                                |

Hint: 6 3 1 9 5 2 7 4 8

Answers may be obtained by sending a self-addressed envelope to

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## A "SOUND" CROSSWORD

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Much concern has been shown in the development of techniques that make physics a subject more appealing to high school students. Choosing games which are both familiar to the student and able to enhance his understanding of physics is an important step in this development. A crossword puzzle, as will be seen, can do both of the above. The following crossword puzzle has been revised and is ready for use with a unit on sound.

The original puzzle was designed as an activity for a teaching presentation, required in the course "Curriculum Physics" offered at Wisconsin State University—River Falls. This original contained

names of classmates. Spaces containing names are Across: 10, 50, Down: 9, 37. Those using the puzzle may wish to alter other parts of the puzzle to accommodate other names, especially when small classes are taught. Examples for names to be used are those of the principal, superintendent, physics instructor, prom queen, basketball star, or custodian. The choice is unlimited. After reading through the "Across" and "Down" selections, it is evident that the puzzle is not entirely serious physics. There are many questions needing thought and imagination in order to be answered. As a result, this crossword puzzle should prove to be an enjoyable learning experience for the student. Good luck in its use!

SOLUTION TO "PHYSICS IS PHUN" QUIZ, USING HINT

The hint is based on the number of letters needed to spell the numbers 1 to 60 in order starting with one. Consider a similar matching puzzle with nine numbers. We would start with nine blanks:

— — — — — — — — —

Start at the first blank and begin by spelling the number 1 (i.e. O-N-E). Move one space to the right for each letter. When you finish spelling the word, put the number in the last space counted.

o n e t w o t h r

When you reach the last blank go back to the beginning and continue counting blanks as you spell. DO NOT count a blank after it is filled with a number.

o n e t w o t h r  
e e - f o - u r

If you continue in the manner, you will generate the number given as a hint:

6 3 1 9 5 2 7 4 8

Since the "PHYSICS IS PHUN" quiz has 60 matching items, the answer sheet has 60 blanks. You generate the answer key by counting the letters in the words one to sixty as in the example above. NOTE: Do not count the hyphen in numbers like twenty-two.