

*What Do You Know
about Science*

Facts-Worth-Knowing Games

What Do You Know About

SCIENCE



**The Book of Answers and
Rules of Play**

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[4546]

98—A compound containing oxygen combined with one other element.

99—Hydrogen unites chemically with oxygen forming water. $2\text{H}_2 + \text{O}_2 = 2\text{H}_2\text{O}$.

100—Chlorine gas. ★

Things - Worth - Knowing Games

SCIENCE

RULES OF PLAY

1. Choose one of your group to act as leader.
2. The leader holds the Book of Answers to the QUIZ, mixes the cards, and deals six or more questions to each of the players who hold their cards face down.
3. The first player at the left of the leader turns up one of his cards, reads aloud the question on it, and answers it.
4. If the leader accepts the answer as correct, the player keeps the card to count for game and the next player at his left turns up a card, reads the question and answers it.
5. If a player fails to answer a question, his card is passed to the next player on his left who

- tries to answer the question and so on around the group until the question is answered. The player who answers the question correctly keeps the card to count for game.
6. If no player can answer the question, the leader removes the card from the game.
 7. Six more questions may now be dealt and the game continued.
 8. When as many rounds have been played as agreed upon at the start, each player counts one point for each question he has answered correctly, as shown by the cards he has laid aside to count for game.
 9. Questions with one star ★ count two points. Questions with a double star ★ ★ count five points. The player having the highest count wins the game.
 10. Players must not answer out of turn nor assist another player. If any player does either of these things, the card is won by the player who at that moment holds the card.
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- 88—Yes, so long as the rays of light remain in the same medium. ★ ★
- 89—H₂O. ★
- 90—Milk.
- 91—16 minutes and 40 seconds. ★ ★
- 92—The attraction of the moon acting on the earth's large bodies of water.
- 93—Jupiter has nine moons.
- 94—Most plants take food from the soil except the carbon and oxygen that they get from the air.
- 95—The mixture of gases surrounding the earth.
- 96—No. Frost is formed if water vapor in the air is condensed on the grass when the temperature is below freezing. ★
- 97—Lean meat, cheese, eggs, beans, peas.

- 76—A storm is usually indicated.
- 77—No, water vapor in the air is condensed on the cold grass.
- 78—The North Star.
- 79—The moon revolves around the earth which in turn revolves around the sun.
- 80—Heat and light.
- 81—It must be set back one hour. ★
- 82—No, sound is a wave motion in some material medium.
- 83—They both need air.
- 84—Germs are usually thought of as disease-producing bacteria.
- 85—Sunshine, fresh air, good food and rest.
- 86—By draining or oiling mosquito-breeding pools of stagnant water.
- 87—By boiling water germs may be killed.

Answers to Questions

- 1—Approximately 15 pounds per square inch.
- 2—Yes, but in very minute traces.
- 3—Because the sunlight is so much more brilliant than the light of the stars.
- 4—The force of gravity.
- 5—It has a rough, barren, rocky surface, full of craters.
- 6—The revolution of the earth around the sun and the inclination of the earth's axis.
- 7—Because at that time the earth's axis is inclined away from the sun and the sun's rays fall obliquely on the earth in the northern hemisphere. ★★

- 8—186,000,000 miles per second.
- 9—Lines drawn through places that have the same temperature. ★
- 10—Roots, stems, and leaves.
- 11—Its principal use is that it serves as a support for the leaves.
- 12—No, some bacteria are very useful.
- 13—Bees and silkworms.
- 14—Fats are energy producing foods.
- 15—It expands.
- 16—An element is a substance that cannot be separated into two or more different substances by chemical means.
- 17—Hydrogen.
- 18—From red oxide of mercury, HgO.
- 19—A flame is a burning gas.
- 20—With a barometer.

- 66—Yes.
- 67—Winds that are constantly blowing from the northeast or from the southeast towards the equator.
- 68—The cactus.
- 69—Single celled plants living on other plants or animals. ★
- 70—Some substance that will act against a toxic poison secreted by some bacteria. ★★
- 71—Mosquitoes. ★
- 72—32 degrees Fahrenheit.
- 73—A compound is made up of two or more elements united in some definite proportion by weight.
- 74—Water, H₂O.
- 75—No, electricity does not burn to produce heat.

- 32—It is called a toxin. ★★
- 33—Six.
- 34—Butter, pork, nuts, chocolate.
- 35—Because when water freezes it expands with great force.
- 36—Ninety-two.
- 37—No, air containing oxygen must be supplied or the fire will go out. ★
- 38—The carbon of the coal is uniting with oxygen from the air producing heat and light. ★★
- 39—The fur-lined coat, because there is larger dead air space around the body. Air is a poor conductor of heat and thus keeps the body warm. ★★
- 40—A thermometer.
- 41—Condensed water vapor, very small particles floating in the air.

- 42—Moisture from the air condenses on the cold surface of the pitcher. ★
- 43—Stars give out their own light. Planets shine by reflected sunlight.
- 44—Your weight.
- 45—8000 miles.
- 46—The time of the 75th meridian. ★
- 47—At the equator, 69.6 miles. At the poles, zero miles.
- 48—No.
- 49—A mixture of snow and rain.
- 50—The roots.
- 51—Pneumonia, tuberculosis, and typhoid fever.
- 52—Insects. ★
- 53—Starches and sugars. ★

- 54—212 degrees Fahrenheit.
- 55—Oxygen and nitrogen. ★★
- 56—Joseph Priestley, 1776.
- 57—Coal, oil, and gas.
- 58—To prevent the water from freezing and thus breaking the pipe.
- 59—Its weight.
- 60—There is either rain or snow.
- 61—Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune. ★
- 62—93,000,000 miles.
- 63—It is spherical but flattened at the poles.
An oblate spheroid.
- 64—Four: — Eastern, Central, Mountain, Pacific.
- 65—The time of year when the day and night are of equal length. ★★

- 21—Largely from oceans, lakes, vegetation, soil, etc., by evaporation. ★★
- 22—It is a variable mixture of some eight or nine gases.
- 23—Saturn.
- 24—About 240,000 miles.
- 25—Neither, so far as known.
- 26—A line through the Pacific Ocean corresponding in general to the 180th meridian. ★★
- 27—The time of the shortest day in the year, December 22.
- 28—An absolutely empty space.
- 29—A belt of calms and light breezes near the equator. ★
- 30—The dandelion.
- 31—By counting the circular rings shown on the cross section of the trunk.