



SCIENCE - Q & Answers

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KALIKA CHETHARIKE - Important Questions for Practice

Combustion & Flame

1. In which state of matter LPG occurs ?
2. Which materials quickly ignited fire?
3. List the difference between cooking gas, phosphorus and crackers.
4. What zone of flame is used by goldsmiths to dissolve gold and silver?
5. What is the scientific reason for using wood oven less nowadays?
6. How water controls the burning of fire? Explain.
7. Abida and Ramesh were doing an experiment on heating water test tube. Abida hold beaker near the yellow area of the candle flame, Ramesh uses a beaker placing it on the very outer side of the flame. Which water is going to becoming heat in very short period of time?

Cell Structure and Functions

1. Write the differences between plant and animal cell
2. Why plants are green in colour? Why not we?
3. Is the cells of all living organisms on earth are of same size and shape?
4. Is it possible to see a cell by naked eye? If so which cell can see by naked eye?
5. Mention the function of cell organelles - Plasma Membrane, Cytoplasm, Nucleus
6. What is cell ?
7. Write the diagrams of plant and animal cells label the parts
8. Name the cellular organelles of cell.
9. Mention the similarities of plant and animal cell

Reproduction in Plants

1. Identify the types of reproduction in given Plants
2. Sexual reproductive parts /steps of different plants are given, identify and explain them
3. Identify and write types of asexual reproductive types of Budding, binary fission, multiple fission (hydra, amoeba, plasmodium)

4. Observe and Explain about – Male reproductive system, Female reproductive system, Fertilization, Zygote
5. Briefly explain sex determination in humans
6. Write changes of adolescence
7. Identify endocrine glands in human body
8. Write Shorts notes on Nutritional needs of adolescence, Individual hygiene, Physical Exercise
9. What is reproduction? Mention the types of reproduction
10. With an example each name the types of asexual reproduction in plants
11. Name the steps of sexual reproduction in plants
12. With an example of each, name the types of asexual reproduction in animals
13. Write diagrams of Male reproductive system, Female reproductive system and label the parts
14. Mention the physical and mental changes of adolescence
15. Write a note on nutritional needs and healthy habits of adolescence.

Chemical Effects of Electric Current

1. Having more content of iron in a bicycle is not corrosive, why?
2. The steel vessels are copper plated at the bottom, why ?
3. Write is the reason for increasing use of LED bulbs now a days?
4. A child of coastal area will test drinking water and seawater through a test. He finds that the magnitude of the bending of the magnetic needle is higher in seawater. Can you explain the reason?
5. Copper wire is more commonly used in power consumption than iron wire. Why?
6. Is it advisable to assign repair work to an electrician when there is heavy rain outside? Explain
7. Paheli says that even rain water is pure equal to filter water. So she collects the rain water in a glass jar and tests it using a tester. She's was very surprised. She observes deflections in magnetic needle. Write reason for this?

Natural Phenomenon

1. List the consequences and measures that can be taken to protect from Winds, Storms, Hurricanes
2. Categorize the safest and the non-safest protections against lightning
3. List the effects of wind, storms and hurricanes
4. Write down the types of charges and the differences between them
5. What is lightning? Give the methods of prevention from the lightning
6. What is earthquake? Mention the reason for cause and the preventive measures

Light

1. How does shadow occurs?
2. Give an example for natural phenomena where light moves in a straightline.
3. When the light of the sun passes through a prism there appears seven colors - Identify colors in the sequence and write them as given example, What is the name for this phenomena?, Can you mix these colors and get a white light?
4. Concave mirrors are used in solar cookers. Give reason Write the differences between convex and concave mirrors
5. Write the differences between convex and concave mirrors
6. Tell us about the phenomena of light refraction in your life.
7. In ambulances' why they have written reversed?
8. Write the differences between the real and inverted images

Stars & Solar System

1. Identify the celestial bodies and write their name
2. Name the different constellations
3. Name the nearest planet to the sun, nearest planet to the earth, planet which has living organisms, nearest planet outside the earth's orbit, biggest planet of the solar system, planet which has yellowish colourgrade, outermost planets of the solar system
4. Identify other members of the solar system
5. What is a constellation?
6. Why Mercury in the Solar System is so hard to spot?
7. Write the difference between planets and stars
8. Divide the following names into the inner planets and outer planets of the solar system. Mars, Neptune, Jupiter, Mercury, Venus, Saturn, Uranus and Earth.
9. List the applications of man made satellites

Air Pollution & Water Pollution

1. Write the reasons for the pollution in the space
2. Water is a valuable natural resource and is naturally recharged in the environment
3. Write problems / effects of water pollution
4. Write down the measures to control water pollution
5. How you can help to reduce air pollution at individual level?
6. What are the different ways that water is polluted?
7. Write down the risk to the beauty of Taj Mahal from air pollution
8. A lot of dry leaves are huddled in the school garden and some are burned every day. If not, what can be done to dispose of dry leaves in an environmental friendly way?
9. How high levels of nutrients in water affect the survival of aquatic organisms?

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