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RADIANT DAWN

A Sunday Supplement in English to Kalaikkathir

Page I

English for all

Sunday the

09th July 2023

We welcome
students'
articles in
word for
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-Editor-

kalaikkathiredu@gmail.com

NCERT Solutions for Class 7 Science Chapter 15 Electric Current

Light is all around us and has many diverse effects. In class 7, students can learn how light affects vision, photosynthesis, plants, and more. Additionally, they can study how light interacts with electromagnetic radiation such as x-rays and gamma rays, as well as explore phenomenon such as refraction in order to gain a better understanding of the effects of light in our everyday lives.

Electric current and its effects is a topic that is taught in Class 7 science. It is an important concept that deals with the flow of electric charge in a circuit. One of the ways to assess the understanding of this concept is by solving worksheets. The Electric current and its effects Class 7 worksheet is a tool that can be used to evaluate the knowledge gained by students on this topic. This worksheet may be available in a PDF format, which can be downloaded from [wikknowlearn](#)

The flow of electric current can be explained by the movement of electrons in a conductor. The materials that can conduct electricity are called conductors, and those that cannot are called insulators. Fuse wire material is a special kind of wire that is used in electrical circuits to protect them from overload. When there is an overload of current, the fuse wire material melts and breaks the circuit, preventing damage to the other components of the circuit.

Another interesting concept related to electric current is the electric bell. An electric bell works on the principle of an electromagnet. When an electric current passes through a wire wound around an iron core, it produces a magnetic field. This magnetic field attracts a metal rod, which hits the bell and produces a sound.

Spherical mirrors are another important topic that is taught in Class 7 science. There are two types of spherical mirrors, namely concave and convex. A concave mirror is a mirror that curves inward, while a convex mirror curves outward. The two mirrors have different properties, and they can be used for different purposes.

Lenses are also taught in Class 7 science. A lens is a transparent object that is used to refract light. There are two types of lenses, namely convex and concave lenses. A convex lens is thicker at the center than at the edges, while a concave lens is thinner at the center than at the edges.

The effect of electric current is not only limited to the production of magnetic fields but also has other effects such as heating and chemical effects. The effect of electric current is also taught in Class 10 science. In this class, students learn about the different effects of electric current and how it is used in various applications.

The effect of light is another interesting topic that is taught in Class 7 science. Light is a form of energy that travels in straight lines. When light falls on an object, it can be reflected, absorbed or refracted. The effects of light are further explored in this class, and students learn about the different properties of light, such as color, wavelength, and intensity.

The bulb glows only in the presence of an electric current. An electric current is the flow of electric charge in a circuit. Without an electric current, the bulb will not glow. The electric current and its effects Class 7 worksheet is a great tool that can help students to understand this concept better.

In conclusion, electric current and its effects, fuse wire material, electric bell, types of spherical mirror, lens, effects of light, and electric cell are all important concepts that are taught in Class 7 science. These concepts are interconnected and form the basis of understanding the different applications of electricity and light in our daily lives. Worksheets and notes on these topics can be found online and can be used to evaluate the understanding of the students. By mastering these concepts, students can gain a better understanding of the world around them and make informed decisions about their future careers.

Electric current and its effects class 7 important extra questions and answers

1. What is electric current?

Electric current is the flow of electric charge through a conductor.

2. What is the unit of electric current?

The unit of electric current is ampere (A).

3. What is the direction of conventional current flow?

The direction of conventional current flow is from positive to negative.

4. What is the difference between AC and DC current?

AC (alternating current) changes direction periodically, while DC (direct current) flows in only one direction.

5. What is resistance?

Resistance is the opposition to the flow of electric current through a conductor.

6. What is the unit of resistance?

The unit of resistance is ohm (Ω).

7. What is Ohm's law?

Ohm's law states that the current through a conductor between two points is directly proportional to the voltage across the two points.

8. What is the formula for calculating resistance?

Resistance = Voltage/Current

9. What is a circuit?

A circuit is a closed path through which electric current can flow.

10. What is a series circuit?

A series circuit is a circuit in which the components are connected in a single loop, so that the current flows through each component in turn.

11. What is a parallel circuit?

A parallel circuit is a circuit in which the components are connected in multiple loops so that the current can flow through each component independently.

12. What is the effect of an electric current on a magnet? A: An electric current produces a magnetic field, so it can make a magnet move or create a magnetic field around a conductor.

13. What is an electromagnet?

An electromagnet is a magnet that is created by passing an electric current through a coil of wire wrapped around a core made of magnetic material.

14. What is the importance of electric current in our daily lives?

Electric current is essential for powering many devices and appliances that we use every day, including lights, computers, televisions, refrigerators, and more. It also plays a crucial role in industries such as transportation, manufacturing, and healthcare.

FAQs

1. What is an electric circuit?

A: An electric circuit is a path or loop that enables the flow of electric current from one point to another.

2. What are conductors?

Conductors are materials that allow the flow of electric current through them easily.

3. What are insulators?

Insulators are materials that do not allow the flow of electric current through them easily.

4. What is the relationship between current, voltage, and resistance?

A: The relationship between current, voltage, and resistance is described by Ohm's law, which states that the current through a conductor is directly proportional to the voltage and inversely proportional to the resistance.

5. What is the difference between an open circuit and a closed circuit?

An open circuit is a circuit that is incomplete or broken, and electric current cannot flow through it. A closed circuit, on the other hand, is a circuit that is complete, and electric current can flow through it.

6. What is an electric shock?

An electric shock occurs when a person comes in contact with a source of electric current and the current flows through their body.

7. What are the safety precautions to take when working with electric circuits?

Some safety precautions to take when working with electric circuits include wearing rubber gloves, using insulated tools, avoiding water, turning off power sources before working, and following instructions carefully.

8. What are the different types of electric currents?

The two main types of electric currents are direct current (DC) and alternating current (AC).

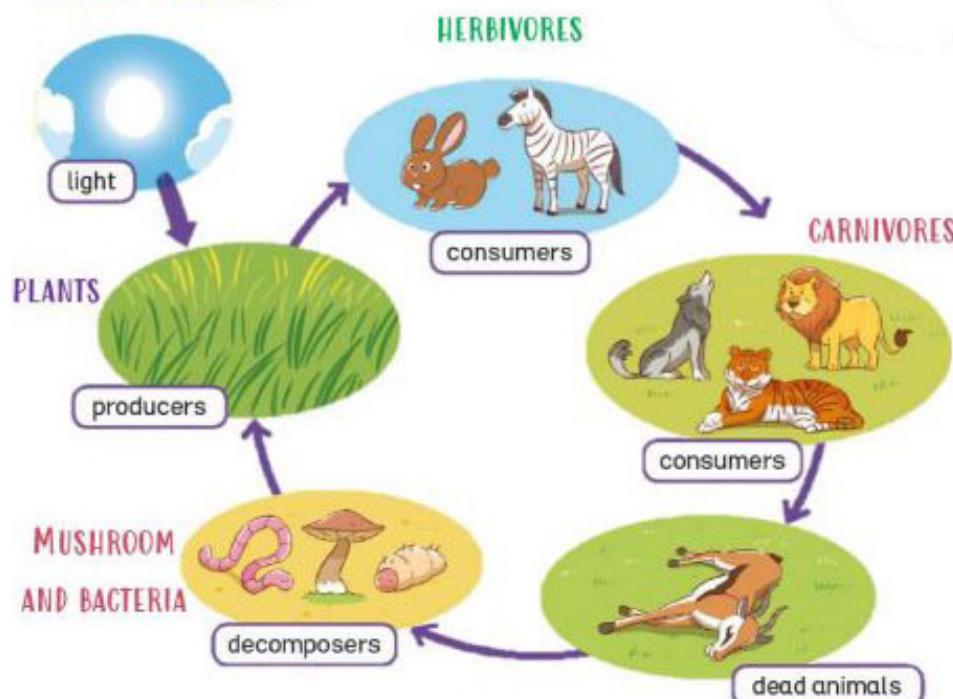
9. What are the different components of an electric circuit?

The different components of an electric circuit include a power source, wires or conductors, resistors, switches, and other devices or components.

10. What are the different applications of electric current?

Electric current has many applications, including powering homes and buildings, transportation systems, medical equipment, communication devices, and many other technologies and appliances.

FOOD CHAIN



LISTEN AND COMPLETE

All living things are part of the food chain.

Plants are called

They absorb **light** from the sun and produce energy.

Animals are called

Animals that only eat plants are called **herbivores**.

Animals that eat other animals are called **carnivores**.

Animals that eat plants and animals are called **omnivores**.

Mushrooms and bacteria are called

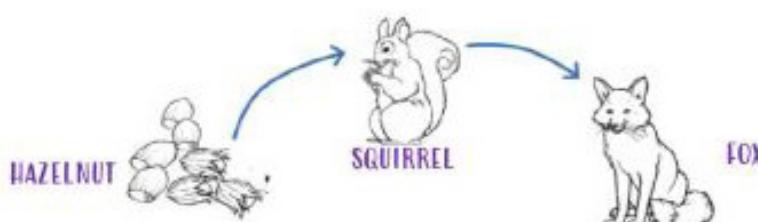
They transform dead animals into mineral salts.

COMPLETE WITH THE WORDS IN THE BOX

PRODUCER – CONSUMER – DECOMPOSER



CHOOSE THE RIGHT ANSWER



The hazelnut is a Producer

- Producer
- Consumer (herbivore)
- Consumer (carnivore)

The squirrel is a

- Producer
- Consumer (herbivore)
- Consumer (carnivore)

The fox is a

- Producer
- Consumer (herbivore)
- Consumer (carnivore)

Based on the picture, let's drag and drop the correct answer for these questions.

1. What is the function of the roots?

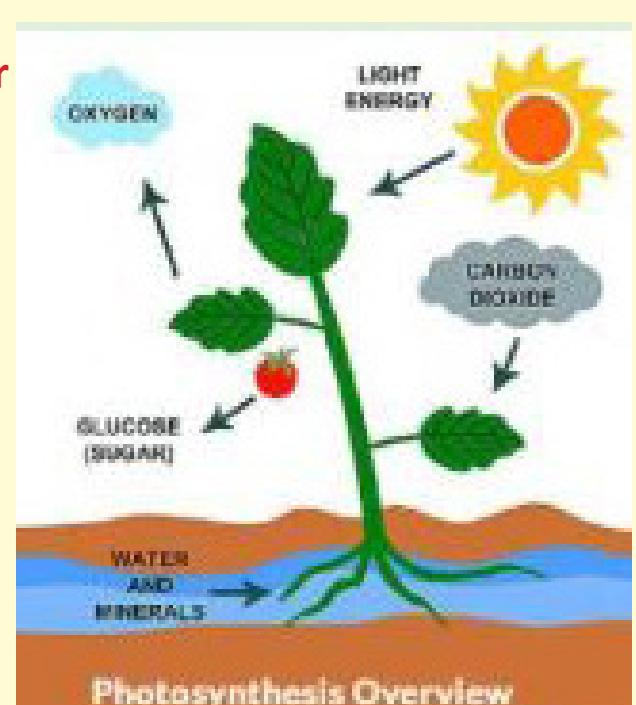
2. What is the function of the stem?

3. What do plants need to make food?

4. What is the part of the plant that uses light to make food?

5. What is absorbed from the air into the leaves?

6. What is released from the leaves into the air?



transports water to the leaves / leaves / oxygen / carbon dioxide / roots
absorb water and minerals from soil water, minerals, carbon dioxide, sunlight

More about my Guru Param Thillairajah



My Guru Param Thillairajah's zest for learning was unbelievable. One day during the classes, he played a cassette and told me "Badri! we must learn this song and sing it" and that was the Dwadasa Ranjana Mala consisting of 12 different Ranjanis one for each line along with chittaswaram. And the next few days, we immersed ourselves totally and finally got it. He was 75 then but he was learning as if he were a child.

To say that he was a TV addict would be an understatement. He would watch tamizh serials, sports like cricket and tennis and news especially BBC. He had the different episodes of "Sondham" serial taped and distributed freely to me.

He had a high regard for well qualified individuals and would talk very highly of them. I remember him giving me "Ageless Body, Timeless Mind" by Deepak Chopra. My wife Geetha read it in a few days and when I mentioned this to him on returning the book, he was so impressed with her keenness for learning that he used to mention this to anyone whom he knew.

He loved my grandmother's songs especially the ones on Lord Muruga. He would ask me to sing "manam varumo muruga" in the raagam Hamsanandi whenever there was an occasion at his home or when someone called on him.

He was very upset when he learnt that I was leaving Australia back to India and even suggested that I apply for permanent residency and get my mother there. But when he knew that I was keen on going, he became very supportive and in fact came to the airport to see us off.

I vividly remember his trip to India in 2002 when we had the fortune of hosting him in Chennai for a few days. He would climb the three flights of stairs (no lift) but would not complain. He and amma travelled to so many destinations in north and south India during that trip and I am still left wondering of their willpower.

I can go on and on, sharing memories of that incredible person full of life, warmth and hospitality. I consider it my "poorva janma puniyam" that I even came into contact with him let alone

be the recipient of his unlimited love and affection.

Param Thillairajah and his wife

No thought of Ayya can be complete without a deep sense of gratitude to amma. Her patience was amazing especially in the face of the several demands he would make of her and her infectious smile would immediately wipe away any stress or tension in others.

My Sweet Musical Memories of Shri Param Thillairajah – 1

Tags: Australia, gurukulam, Harris Park, Music, param thillairajah, Sydney, sydney murugan temple, Westmead

In my previous post, I had written about how I came to meet my music guru in Sydney and promised to share some experiences of mine in that relationship.

If I can term my tutelage under him in a phrase, it would be "partial gurukulam". Unlike the gurukulams of the vedic age where the students stayed with the teacher, I was living at my apartment in Harris Park, a suburb and he was at his flat in West Mead, another suburb in the same line. But like those gurukulams, he taught music to me without taking any fees and more importantly, took care of me when I went to his place for classes.

The moment I would step in, he would bellow "Amma! (calling his wife) Badri vandirukkar (I was less than half his age then but still he would refer to me as "neenga" and "avar" as was the Sri Lankan culture)! Give him something to eat" and some dish will appear in my front almost instantly. Both of them treated me as their son and showered their love and affection.

When we got an opportunity to perform together in Sydney Murugan Temple, we were asked what to print in the invite and he immediately said "Sydney Brothers" without batting an eyelid, although he was 40 years elder to me. He had a phenomenal sense of humour and his eyes would gleam with mischief when he made such remarks.

யாழில்

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Tourism
Northern Province

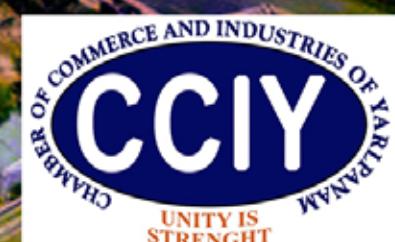
இணைந்து வழங்குவோர்



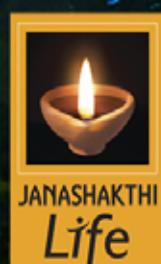
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