

Quiz Card

Question: What is a renewable energy source?

- A) Energy that will never return.
- B) Energy that can be replaced naturally.
- C) Energy from batteries.
- D) Energy made from coal.

Answer: B) Energy that can be replaced naturally.



Fun Fact: Renewable energy sources like solar and wind power are virtually limitless and cause little pollution!

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Quiz Card

Question: Which of these is a renewable energy source?

- A) Coal
- B) Wind
- C) Oil
- D) Natural Gas

Answer: B) Wind



Fun Fact: Wind turbines generate energy without using water or polluting the air!

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Question: Which of these is not a consequence of deforestation?

- A) More rainfall.
- B) Soil erosion and loss of fertile land.
- C) Increase in greenhouse gas emissions
- D) habitat loss for animals

Answer: A) More rainfall.



Fun Fact: Rainforests, often called the "lungs of the Earth," produce about 20% of the oxygen we breathe. When forests are destroyed, it's not just animals that lose their homes—we lose nature's oxygen factories too!

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Question: Why is planting trees important?

- A) It replaces the trees lost to deforestation.
- B) It uses up carbon dioxide in the air.
- C) It creates homes for animals.
- D) All of the above.

Answer: D) All of the above.



Fun Fact: Trees don't just give us oxygen—they also act like giant air conditioners! A single mature tree can cool the surrounding area by up to 6°C.

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Question: Why is renewable energy important?

- A) It is rare and expensive.
- B) The renewable energy sources are not easily accessible.
- C) It helps reduce pollution.
- D) It does not last long.

Answer: C) It helps reduce pollution.



Fun Fact: The energy from the sun that hits the Earth in just one hour could power the entire world for a year!

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Question: What is geothermal energy?

- A) Energy from the Earth's heat.
- B) Energy from wind.
- C) Energy from sunlight.
- D) Energy from coal.

Answer: A) Energy from the Earth's heat.



Fun Fact: Geothermal energy is harnessed by tapping into the heat stored beneath the Earth's surface!

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Question: How does hydropower generate energy?

- A) By using sea waves.
- B) Using flowing water to spin turbines.
- C) Through windmills.
- D) By using sunlight.

Answer: B) Using flowing water to spin turbines.



Fun Fact: The largest hydropower plant in the world, the Three Gorges Dam in China, can generate enough electricity to power nearly 84 million homes every year!

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Question: What can you do to help reduce global warming?

- A) Use plastic bags.
- B) Plant trees.
- C) Avoid using public transportation.
- D) Leave lights on when not in use.

Answer: B) Plant trees.



Fun Fact: Did you know that planting just one tree can absorb about 22 kilograms of carbon dioxide every year?

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Quiz Card

Question: Which of these is an example of a renewable energy source?

- A) Coal
- B) Wind
- C) Natural gas
- D) Oil

Answer: B) Wind



Fun Fact: Ancient civilizations used wind to power sailboats and grind grains with windmills. Today, modern wind turbines generate electricity without producing pollution.

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Quiz Card

Question: Which energy source comes from the heat inside the Earth?

- A) Hydropower
- B) Coal
- C) Nuclear power
- D) Geothermal energy

Answer: D) Geothermal energy



Fun Fact: The Earth's core is as hot as the surface of the Sun, with temperatures reaching up to 6,000°C! Geothermal energy taps into this incredible heat, providing a clean and renewable energy source.

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Question: Which of these fossil fuels releases the most carbon dioxide when burned?

- A) Coal
- B) Natural gas
- C) Oil
- D) Biomass

Answer: A) Coal



Fun Fact: Coal is the dirtiest fossil fuel! When burned, it releases about twice as much carbon dioxide as natural gas and significantly more than oil, making it a major contributor to climate change.

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Question: What is the main disadvantage of solar energy?

- A) It also can be used at night
- B) Solar panels can harm the ozone layer
- C) Energy production is weather-dependent
- D) It cannot be used in deserts

Answer: C) Energy production is weather-dependent



Fun Fact: Did you know that even though solar panels can't generate electricity at night, solar energy can be stored in batteries or as heat during the day? This helps keep the lights on even after the sun sets!

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Question: What are the gases called that become trapped in the earth's atmosphere and are heating the planet?

- A) Greenhouse gases
- B) Humidity
- C) Nitrates
- D) Precipitation

Answer: A) Greenhouse gases



Fun Fact: Greenhouse gases like carbon dioxide, methane, and nitrous oxide act like a blanket around the Earth, trapping heat. Without them, Earth would be too cold to support life, but too many of them are causing the planet to warm up faster than it should!

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Question: This layer keeps us "not too hot in the summer" and "not too cold in the winter." Scientists call this the _____.

- A) greenhouse effect
- B) seasonal effect
- C) ocean effect
- D) lake effect

Answer: A) Greenhouse effect



Fun Fact: The greenhouse effect is like the Earth's natural thermostat! Without it, our planet would be an icy desert, but too much of it can lead to global warming. It's all about balance!

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Question: What are the major causes of sea level rise?

- A) Increased rainfall
- B) Melting glaciers and ice caps
- C) Shrinking mountain ranges
- D) Rivers accelerating

Answer: B) Melting glaciers and ice caps



Fun Fact: Did you know that if all the ice in Greenland and Antarctica melted, sea levels could rise by more than 200 feet (60 meters)? That's enough to flood many coastal cities around the world!

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Question: What causes ocean acidification?

- A) CO₂ dissolved in ocean water
- B) Overfishing in the oceans
- C) Overuse of plastics in the oceans
- D) increasing water temperatures

Answer: A) CO₂ dissolved in ocean water



Fun Fact: Ocean acidification is sometimes called the "evil twin" of climate change. When CO₂ dissolves in the ocean, it makes the water more acidic, which harms marine life, especially coral reefs and shellfish.

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Question: How long does it take for carbon dioxide in the atmosphere to disperse?

- A) A few months
- B) between 1 and 10 years
- C) between 10 and 100 years
- D) between 100 and 1000 years

Answer: D) between 100 and 1000 years



Fun Fact: Trees are one of our best allies in fighting carbon dioxide! They absorb CO₂ from the air and store it in their trunks, branches, and roots. In fact, forests help remove around 30% of human-made CO₂ emissions each year!

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Question: Which renewable energy source relies on the Earth's gravitational pull?

- A) Wind energy
- B) Tidal energy
- C) Geothermal energy
- D) Solar energy

Answer: B) Tidal energy



Fun Fact: Tidal energy is generated by the gravitational pull of the moon and the Sun on Earth's oceans, creating high and low tides. Some places use the rising and falling tides to generate clean, renewable electricity

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Question: What is the main disadvantage of geothermal energy?

- A) It cannot be used for electricity generation
- B) It is highly polluting
- C) It is only available in specific regions
- D) It depends on weather conditions

Answer: C) It is only available in specific regions



Fun Fact: Geothermal energy is like tapping into Earth's natural heat source, but it works best in areas near tectonic plate boundaries, like Iceland and parts of California. If you live near a volcano, you might have access to this hot energy source right beneath your feet!

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Question: What is the primary purpose of energy-efficient appliances?

- A) To reduce energy consumption and greenhouse gas emissions
- B) To decrease electricity bills
- C) To replace non-renewable energy sources
- D) To generate renewable energy

Answer: A) To reduce energy consumption and greenhouse gas emissions



Fun Fact: Energy-efficient appliances, like LED light bulbs and energy-saving refrigerators, use less energy to do the same job, not only helps save you money on electricity bills, but also the primary purpose is to reduce your carbon footprint.

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Question: What is the primary driver of deforestation worldwide?

- A) Urban expansion
- B) Agriculture
- C) Mining
- D) Logging

Answer: B) Agriculture



Fun Fact: Did you know that agriculture is responsible for around 80% of global deforestation? Forests are often cleared to make room for crops like soy, palm oil, and grazing land for livestock. Sustainable farming practices can help protect these vital ecosystems!

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Question: What percentage of plastic waste is not recycled globally?

- A) 30%
- B) 50%
- C) 70%
- D) 90%

Answer: D) 90%



Fun Fact: Globally, about 90% of plastic waste ends up in landfills, the environment, or the oceans, where it can take hundreds of years to break down. That's why reducing, reusing, and recycling plastic is so important!

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Question: Which sector is the largest contributor to global carbon emissions?

- A) Transportation
- B) Agriculture
- C) Industry
- D) Energy production

Answer: D) Energy production



Fun Fact: Energy production, which includes burning coal, oil, and gas for electricity and heat, is responsible for nearly 75% of global greenhouse gas emissions. Transitioning to renewable energy sources can significantly reduce this impact!

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Question: How much of the world's freshwater is accessible for human use?

- A) 0.5%
- B) 1%
- C) 2.5%
- D) 5%

Answer: B) 1%



Fun Fact: Although about 70% of Earth's surface is covered by water, only a tiny fraction—less than 1%—is easily accessible freshwater for drinking, farming, and daily use. The rest is locked away in glaciers, polar ice caps, or deep underground!

Crisis City - Quiz Card

Quiz Card

Question: What is the primary cause of coral bleaching?

- A) Overfishing
- B) Water pollution
- C) Rising ocean temperatures
- D) Plastic pollution

Answer: C) Rising ocean temperatures



Fun Fact: Coral reefs get their vibrant colors from tiny algae that live inside them. When ocean temperatures rise, corals expel these algae, causing them to turn white, or "bleach." If the water stays warm for too long, the corals can die.

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Quiz Card

Question: Which farming practice helps reduce soil erosion?

- A) Crop rotation
- B) Monoculture
- C) Deforestation
- D) Overgrazing

Answer: A) Crop rotation



Fun Fact: Contour plowing involves plowing along the natural curves of the land, which helps slow down water runoff and reduces soil erosion. It's like giving the soil a protective shield against heavy rains!

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Question: What is the most effective waste management strategy?

- A) Recycling
- B) Reducing waste
- C) Composting
- D) Landfilling

Answer: B) Reducing waste



Fun Fact: The best way to manage waste is to prevent it in the first place! By reducing what we use and opting for reusable items, we can significantly cut down the amount of trash we create. The three R's—Reduce, Reuse, Recycle—start with "Reduce" for a reason!

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Question: How do ocean currents influence global climates?

- A) By distributing heat around the planet
- B) By reducing CO₂ in the atmosphere
- C) By increasing rainfall
- D) By controlling tectonic activity

Answer: A) By distributing heat around the planet



Fun Fact: Ocean currents act like Earth's conveyor belts, moving warm water from the equator toward the poles and cold water back toward the equator. For example, the Gulf Stream keeps Europe much warmer than other places at the same latitude!

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Question: What is the biggest environmental issue with electronic waste (e-waste)?

- A) Its bulk
- B) Its toxic chemicals
- C) Its energy consumption
- D) Its limited recycling options

Answer: B) Its toxic chemicals



Fun Fact: E-waste is the fastest-growing type of waste globally! Recycling old electronics can help recover valuable materials like gold, silver, and copper while preventing harmful toxins from polluting the environment.

Crisis City - Quiz Card

Quiz Card

Question: Which sector uses the most water globally?

- A) Agriculture
- B) Industry
- C) Domestic use
- D) Energy production

Answer: A) Agriculture



Fun Fact: Agriculture accounts for about 70% of global freshwater usage, mainly for irrigation. Growing just one kilogram of rice can require up to 3,000 liters of water! Efficient irrigation methods can help save water and support sustainable farming.

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Question: What is the main cause of acid rain?

- A) Carbon dioxide
- B) Nitrogen oxides
- C) sulfur dioxide
- D) B & C

Answer: D) B & C (Nitrogen oxides & sulfur dioxide)



Fun Fact: When sulfur dioxide (SO_2) and nitrogen oxides (NO_x) mix with water vapor in the air, they form acids that fall as acid rain. This rain can harm plants, fish, and buildings. Reducing emissions from factories and cars can help stop acid rain!

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