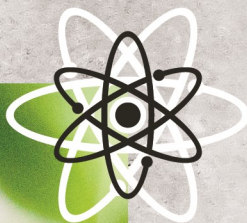


LIFE ON EARTH

EXPLORING EARTH &
PLANTS & ANIMALS



INSIDE

THE EARTH... 1

THE WATER
CYCLE... 3

PLANTS... 5

THE CACTUS... 7

PLANT PARTS
YOU EAT... 9

ANIMALS... 11

METAMORPHOSIS
... 13

KNOW WHY YOU BELIEVE
WHAT YOU BELIEVE

The Earth

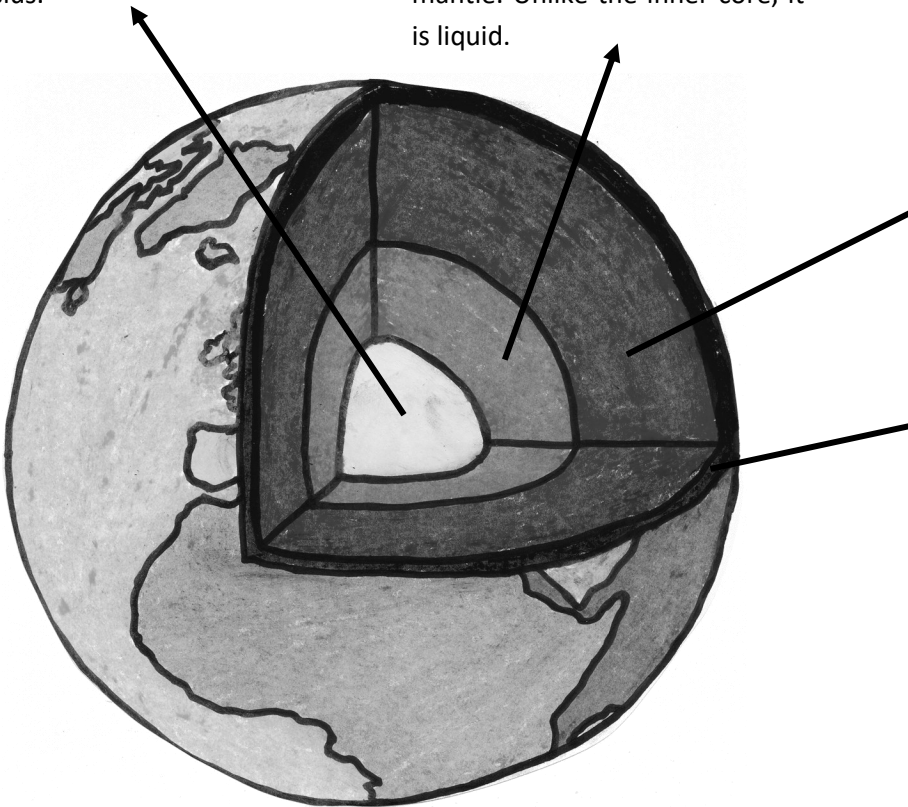
When we look for evidence of a Creator we don't have to go far! God knew what he was doing when he designed the earth! Each part of the earth has a special job that is necessary for life to survive. Is it possible the earth happened to be made like this or did someone specially design it?

INNER CORE

A solid ball composed of an iron-nickel alloy. The inner core has a temperature of 5,400° Celsius.

OUTER CORE


A fluid layer that is made of iron and nickel. It is located above Earth's inner core and below the mantle. Unlike the inner core, it is liquid.



Big Bang


Not everyone believes God created the universe. Some people think it all happened by itself or that it happened with a Bang! This is an explosion so big that happened so fast that everything was created in a second. Did everything happen in a second? Did everything just sort of happen and appear? Or did someone specially create everything? Every book, tree, and building have a creator. The universe is no different. It didn't all just appear...it is part of the creation of the most amazing creator of all—God!

MANTLE



The mantle is composed of rocks that are rich in iron and magnesium. It is the thickest layer of the earth.

CRUST



The crust is made of loose rocks where continents and oceans are located.

Hebrews 4:3

For only we who believe can enter his rest. As for the others, God said, “In my anger I took an oath: ‘They will never enter my place of rest,’” even though this rest has been ready since he made the world.

The Water Cycle

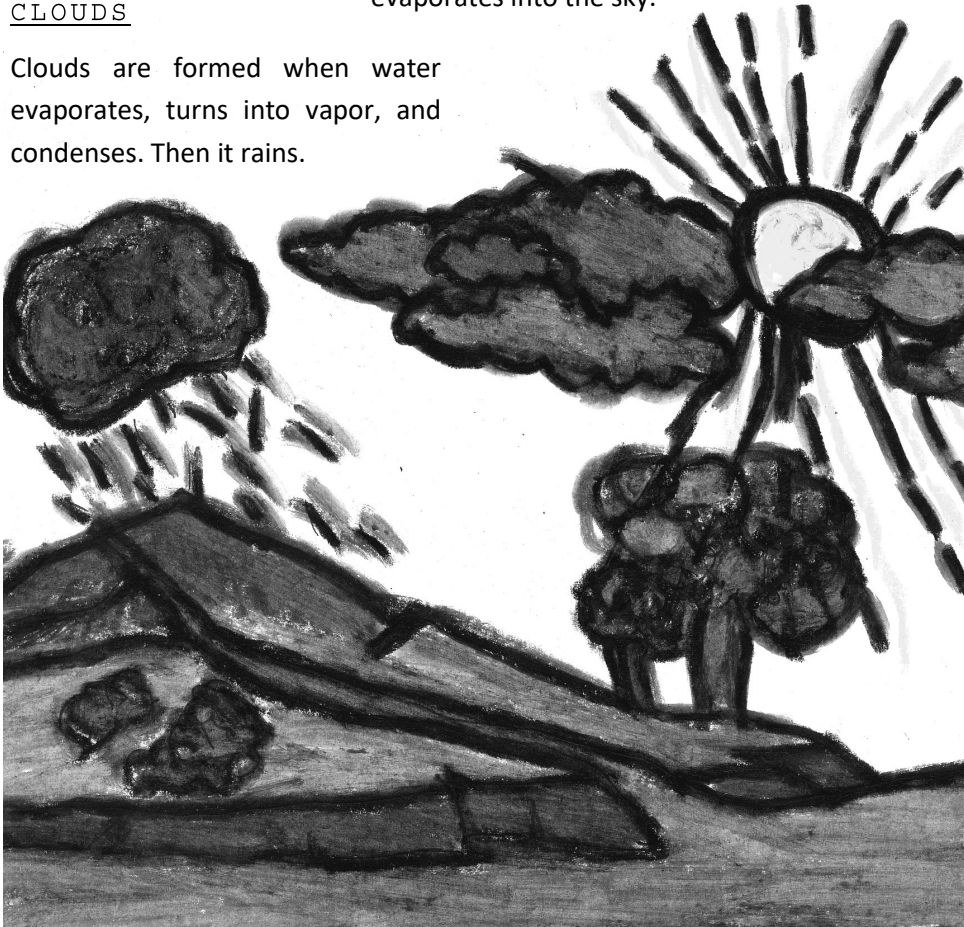
When we look for evidence of a Creator we don't have to go far! God specially designed the sun, clouds and water. The water cycle provides the moisture plants and animals need to survive. Could the water cycle have just appeared? Or does it show God's handiwork?

SUN

The sun heats water, then the water evaporates into the sky.

CLOUDS

Clouds are formed when water evaporates, turns into vapor, and condenses. Then it rains.



The water cycle is the way water moves around the earth. It is a big circle—without any real beginning or end. Liquid water is stored in oceans, rivers, and even puddles. When the sun heats the water’s surface, the water travels up to the sky as vapor. That’s called evaporation. The vapor cools into tiny water droplets. This is called condensation. Water droplets gather together to make clouds, which then send the water back to Earth as rain or snow (NOTE: Some parts of the world also have ice storms with sleet or hail). Precipitation waters plants and gathers in oceans, rivers, and streams. Then the cycle starts all over again. Water is important. We need liquid water to drink, vapor to form clouds, and ice (in some parts of the world to keep our planet at just the right temperature).



1 Corinthians 3:9

**For we are both God’s workers.
And you are God’s field. You are
God’s building.**

WATER

The water collects and it evaporates again, and the cycle continues.

Plants

When we look for evidence of a Creator we don't have to go far! God made plants to not only provide food and beauty but also for shelter.

1. Plants use energy from sunlight to turn carbon dioxide into food by means of photosynthesis. Is photosynthesis important? Why?
2. Did you know we use over 2000 different kinds of plants to make food? Can you name some?
3. Bamboo can grow almost one meter in a single day!
4. God designed leaves to have many layers. Each layer has a special purpose. What would happen if one layer was missing?
5. God designed plants for many different reasons, including material for designing a shelter. Can you name a plant that is used to build shelters?

Hosea 10:12

I said, “Plant the good seeds of righteousness, and you will harvest a crop of love. Plow up the hard ground of your hearts, for now is the time to seek the Lord, that he may come and shower righteousness upon you.”

Genesis 1:14

Then God said, “Let lights appear in the sky to separate the day from the night. Let them be signs to mark the seasons, days, and years.”

1 Corinthians 3:9

For we are both God’s workers. And you are God’s field. You are God’s building.

The Cactus

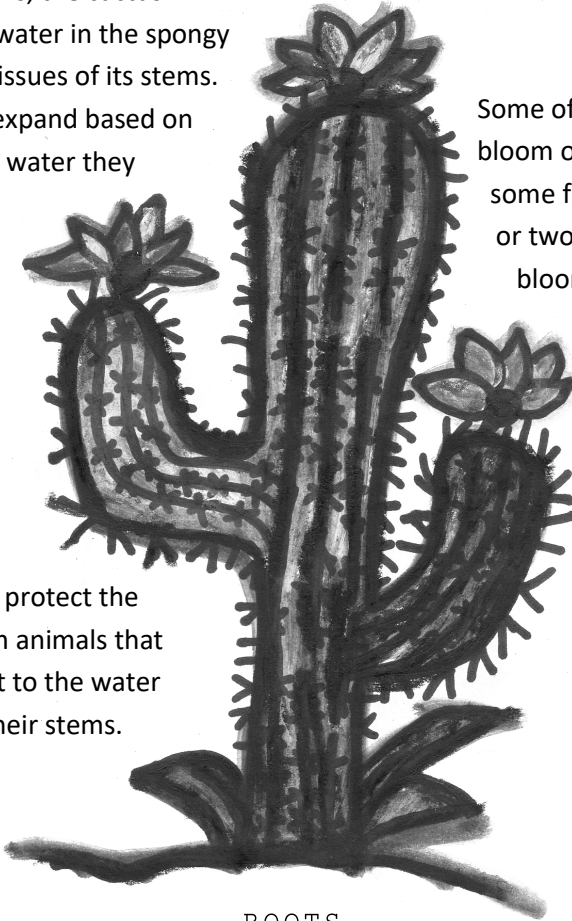
When we look for evidence of a Creator we don't have to go far! Each part of the cactus has been specially designed.

STEMS

When it rains, the cactus stores the water in the spongy or hollow tissues of its stems. Many can expand based on how much water they take in.

FLOWERS

Some of the flowers bloom only at night, some for just a day or two, and others bloom every few years.



NEEDLE

SPINES

These help protect the cactus from animals that want to get to the water stored in their stems.

ROOTS

The roots are close to the surface so they can take advantage of every rain drop.

Write these verses out:

Genesis 1:27

Psalms 119:105

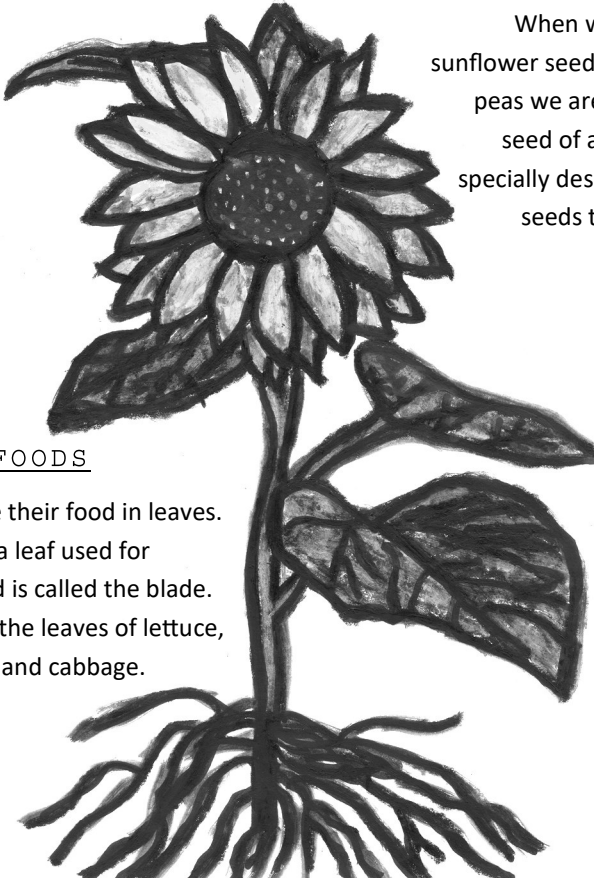
Hebrews 4:3

Plant Parts You Eat

When we look for evidence of a Creator, we don't have to go far! God specially designed plants to produce food! We are able to eat parts of plants or flowers.

SEED FOODS

When we eat corn, sunflower seeds, beans, or peas we are eating the seed of a plant. God specially designed these seeds to be eaten.



LEAFY FOODS

Plants make their food in leaves. The part of a leaf used for making food is called the blade. We can eat the leaves of lettuce, malunggay, and cabbage.

ROOT FOODS

Roots anchor plants into the ground. They grow under soil. Plants use their roots to absorb nutrients from soil. We eat the roots of carrots, potatoes, onions, and radishes.

Seeds

Since plants don't do much roaming around, God has given them different ways to spread their seeds. You might have heard about birds eating seeds and then moving on to another spot, leaving them somewhere else. Some seeds stick to an animal's fur and are spread when they eventually fall off. But other plants are a bit more creative in sharing their seeds. For example, the coconut is actually a big seed that floats! By using the water and waves, coconuts have spread their trees to islands around the world.

Hosea 10:12

I said, “Plant the good seeds of righteousness, and you will harvest a crop of love. Plow up the hard ground of your hearts, for now is the time to seek the Lord, that he may come and shower righteousness upon you.”

Animals

When we look for evidence of a Creator we don't have to go far! Take a moment to read through these statements and ask yourself if animals were specially designed by God.

1. Did you know that sharks have a skeleton made from cartilage, instead of bones? If sharks had a skeleton of bones, would they move the same as they do?
2. Some animals, like sheep, have four stomachs. Each stomach helps them digest the food they eat.
3. Did you know God created between 79 and 84 different kinds of whales?
4. Hummingbirds can hover, fly backwards and sideways, and fly at speeds of more than 90 kilometers per hour.
5. There are many different kinds of insects—from butterflies to ants to spiders. How many insects can you think of? What makes them different from each other?

Left or Right?

Certain places in the world have migration—this is when certain animals move from one place to another in large groups. Animals migrate to find food or get to warmer weather in other areas of the world. The big question is, how do animals know it is time to migrate? Scientists tell us that animals are just born knowing what to do. But it is important to remember God tells the things He has created—like the animals—what to do!

Psalm 119:105

**Your word is a lamp
to guide my feet and a
light for my path.**



Metamorphosis

When we look for evidence of a Creator we don't have to go far! Metamorphosis is the change in form from one state to the next in the life history of an organism. God has specially and uniquely designed caterpillars to turn into butterflies instead of continuing to grow from baby caterpillars and ending at adult caterpillars. This process is called complete metamorphosis. If just one part were missing this would not work. This can only be explained by the hand of our Creator!

1

Caterpillar eggs are laid on the leaves they eat. When they are born they do not have to go very far for food.



2

The caterpillar begins eating so it can grow and get ready to enter metamorphosis.



2 Corinthians 5:17

This means that anyone who belongs to Christ has become a new person. The old life is gone; a new life has begun!



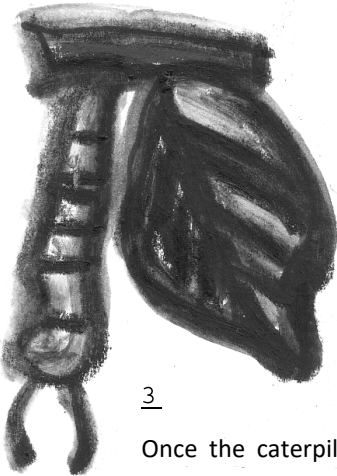
5

The fully grown butterfly pumps blood from its abdomen into its wings and begins to fly.



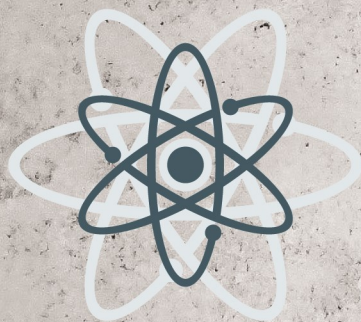
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The caterpillar lives in the chrysalis eating parts of its own body (parts that are no longer needed as its body changes) during the process of changing from a caterpillar to a butterfly. After the butterfly is fully grown it is ready to start flying!



3

Once the caterpillar is fully grown it spins a tiny pad of silk and attaches itself to it. This is the beginning of metamorphosis.



EXPLORING
CREATION
SCIENCE

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