



energy stored up inside it.

that is alive and everything that moves has things move, like sunlight and wind. Everything 2. **Energy**, which makes things warm and makes



planets, and us!



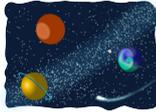
trees, rocks, air, water, metal, anything that has weight. Stars, imagine seeing or touching) and



1. **Matter**, that is, anything you can see or touch (or things:-

have discovered that everything is made of just four study His universe, and our scientists

animals and people; what are they made of? God gives men and woman brains to our Sun, the Earth, with its plants,



universe, with its galaxies and stars, The whole Well, what is everything made from?

Well, what is everything made from? The whole

everything.

can give us clues about how God might have made

way back to Himself. But science is also a good thing and

about science, but rather a guide-book to show us the tell us how God did it. God did not give us a school-book The Bible tells us Who made everything, but it does not

God created the heavens and the earth." Genesis 1:1. That of course is what the bible says - "In the beginning

"In the beginning of nothing?"

"How could God make everything out

3. **Time**, for everything has a yesterday, a today and a tomorrow, in which to change and grow.



4. **A Plan**, or what we call 'information', a bit like the plans for a new building. Everything contains some information (lots of it!).

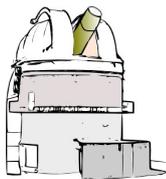
That is why a fish is different from a rock, why a star is different from a sand grain, why we have different hair and eye colours, and why no one's fingerprints are the same as anyone else's.



**What does science tell us?** Many scientists once thought the universe had no beginning, that it has always been there, but discoveries in the last 100 years show that it did have a



beginning. Scientists think this was many millions of years ago, when all the **matter**, **energy** and **time** were squashed into a single thing smaller and heavier than you can ever imagine. It had no length, width or height. Not even light came out of it. There was nothing in it you could say was matter, or energy or time. Rather it was the seed of all three. It is something that no one can really describe or discover.



Then, no one knows why, it exploded. This gigantic explosion began **time**, and scattered **matter** and **energy** in all directions to make galaxies,



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things were made" John 1:3. spoke of in his Gospel, when he wrote "Through him all Father are one." (John 10:30). It was Jesus that John to life again to be our great King. He said "I and my this sad world, died once to rescue us from evil, and rose walked on Earth, did wonderful things, brought hope to Lastly, we look at Jesus, the Man who said he was God,

"The heavens declare the glory of God" Psalm 19:1

will always be, and that He created everything else. He is, Who He has always been, and Who He promises He has done to rescue us. We trust that God is Who He says like, that He loves us and all of His creation, and what He It just tells us that He has always been, and what He is The Bible does not even talk about "Who made God?";

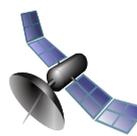


knows what it is, and why it exists? can all use it by turning on the lights, but who and engineers can tell us how it works, and we everything. Think about electricity. Scientists Our minds are too small to understand

Himself, Someone behind Everything Else.

never made There has to be someone who made everything, but was asking this question. person 'A', then 'B' would be God. There is no end to

stars, planets, and everything else. The galaxies are still rushing away from each other



at enormous speeds, and our space satellites can even now pick up the echoes of that huge explosion, which scientists call "The Big Bang". If it really did happen this way (and scientific ideas do change as

new things are discovered) then that tiny seed was as close to nothing as can be imagined. Who then made this seed? There was only God. No one else, and nothing else, was there. Who made the plan? Only God could. It was God who spread out the galaxies, and formed the Sun and the Earth, and every living thing. It is not at all silly to believe what the Bible says:- "By faith (that is, by trusting God) we understand that the universe was formed at God's command" Hebrews 11:3

"But who made God?" The Bible says He has always been there. He is not inside time the way we are. "The King eternal (outside time), immortal (lives forever), invisible, the only God" 1 Timothy 1:17.



Just think, if there was someone (call him "A") who made God, then "A" would be greater than "God", which would make "A" God

instead. If we ask "is there someone 'B' who made

If you are interested in science, here are some more

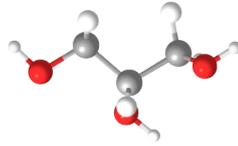
notes:-

### Matter

All things are made up of **atoms**. These are so small that we can only see them with the strongest microscopes. There are about 100 different atoms, including **oxygen** (which we breathe), **carbon** (in plants, and animals - our bones, muscles, skin and every other part of us are made using carbon) **iron** (used to make cars, ships and trains) and **silicon** (in our computers). Diamonds are made from carbon too.



These atoms are put together in millions of patterns (called **molecules**) to make the things we see. Water is made of **hydrogen** and **oxygen**. Petrol for our cars, diesel fuel for trucks and buses, jet-fuel for aeroplanes, and all our plastics are made from **carbon** and **hydrogen**.



There are millions of different molecules in us, in the animals, in the plants, in the rocks and even in the dust.

### Information

It is not just books and computers that store information. Everything has information stored in it, a plan that decides what it will be.



Why is a snake different from an elephant? They are both made of the same atoms and information, the instructions, stored inside all the parts of their bodies that makes them different. Scientists call this animal instruction



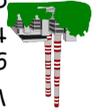
that is, moving energy.

Oil is turned into petrol, diesel fuel and jet-fuel, which are burned in our cars, trucks and planes to make them move. The stored-up sunlight becomes kinetic energy,



the winds using big wind-mill generators. (Your house may have some on its roof) or from

rest comes directly from the sun from solar panels Australia is made this way, from stored-up sunlight. The turned into electricity for our homes, schools and factories. Nearly all our electricity in gives back its energy as heat, which is then When coal is burned in our power-stations it animals, and contain a lot of stored-up sunlight.



### Energy

Energy comes in many different forms. **Heat** is a type of movement energy (called "kinetic" energy): get in the way at the beach and all that energy can easily knock you over (but the still water in a swimming pool can't knock you over - it does not have this movement/kinetic energy).



Trees and all the plants are **solar energy** machines. Sunlight energy on the green leaves is used by the plants to get carbon out of air (from **carbon-dioxide**, a molecule made of one carbon atom and two oxygen atoms) and turn it into more leaves and twigs and branches, and to fill fruits (like apples) with sugar, or grains like wheat with starch to make our bread. Sugar and starch are really stored-up sunlight!

We all must eat, and the fruits, vegetables and grains are a big part of our food. **So we are also solar-powered!** When we eat the stored-up sunlight in the food is turned into heat, to keep us warm enough, into electricity to run our brains, and into movement ("kinetic") energy in our muscles.

Coal and oil were made long ago from dead plants and

information "DNA",



which is a very, very complicated and large molecule.

The DNA of a snake is different from the DNA of an elephant. Even two elephants do not have the exact same DNA, though they are both very different from the snake's DNA.

Your DNA is a bit different from your friend's DNA. That is why our police force can use DNA patterns to find a criminal. No two of us have exactly the same DNA. These are examples of all the wonderful plans that God put into everything there is.

Did you know that trees breathe out **oxygen**, which we need to keep us alive? Just as wonderful is the fact that we breathe out **carbon-dioxide**, which the trees need to keep them alive! **The trees need us. We need the trees!**



God's plans are not separate bits, but all fit together like a huge jigsaw puzzle. No one is as great, wonderful, strong and wise as God.