

Apologetics Made Simple



Thermodynamics
And **Evolution**

Dr. Johnson C. Philip

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Thermodynamics and Evolution

Dr. Johnson C. Philip

The Theory of Evolution is as old as man himself is, but it gained much prominence in the last two centuries. Charles Darwin and numerous others gave it a scientific color and since then the Theory of Evolution (TOE) has become an essential part of the scientific dogma worldwide.

TOE is a dogma of science not because it is an established fact but rather because the scientific establishment worldwide is controlled by non-theistic and even atheistic people – and not because there is any scientific proof for evolution. In fact there are a large number of scientific facts and laws that stand totally opposed to evolution.

One of these is the Second Law of Thermodynamics. Every Christian and Christian apologist should develop a basic understanding of the implications of the second law, and this book is an attempt at a simplified presentation of this topic.



Matter



Random Energy



Creation of Life!

What proponents of the Theory of Evolution claim is that a random interaction of energy and matter eventually resulted in life. They deny that a plan or a planner was ever involved.

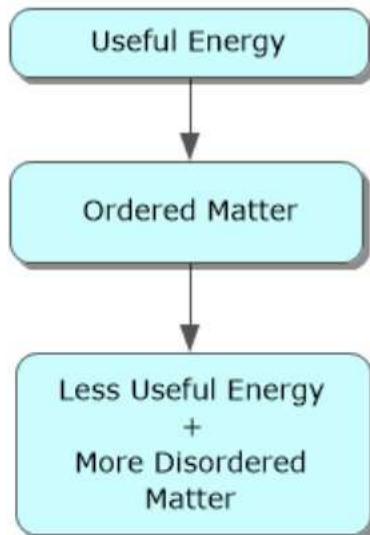
They propose a number of scenarios for exactly why and how randomness was able to create life, but ultimately all of them amount to one thing: Random energy + blind chance + time = ordering of matter = life!

On the next few pages I will explain the implications of the Second Law of Thermodynamics for such a claim.

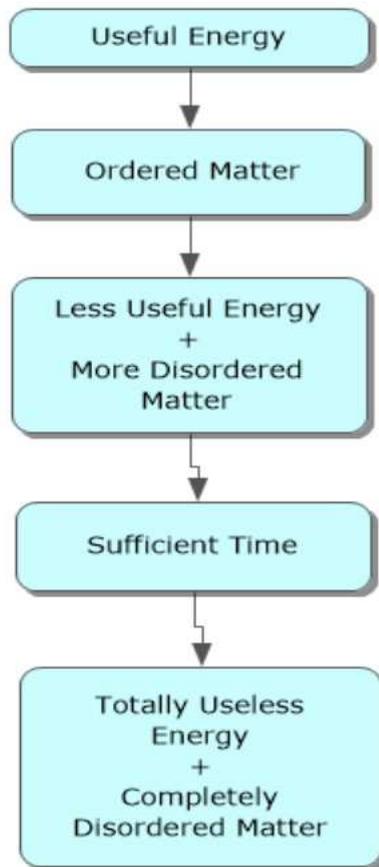
The Second Law In Layman's Language

In very simple terms, the second law says that the Entropy of any closed system keeps increasing. Here entropy is a 'measure' of disorder in a system.

Speaking in layman's language, this means that if there is a closed system (a system that does not receive any energy from outside) then energy in that system destroys the order in it.



This is a universal principle, and no exception to it is known. This is about a 'closed' system where it does not get energy from outside, and where it does not give energy to the outside world. Eventually such a system will reach what is known entropy-death. This is shown in the diagram below:



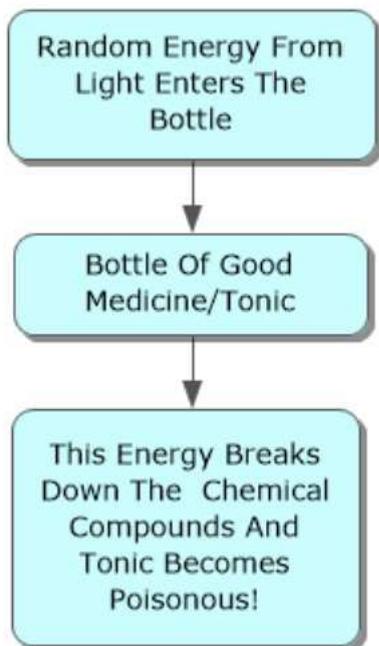
Wherever we look in the universe, the order of nature is 'death' not creation. This means that – contrary to the claim of evolutionists – matter and energy alone cannot create order. If they cannot create order, then order and complexity cannot arise by itself. If that cannot happen, then evolution cannot take place by itself.

Some evolutionists claim that this (energy + matter = disorder) happens only if a system is 'closed' and that things are different in open systems. They claim that in a closed system available energy decreases and therefore order and complexity cannot arise, and that in open systems the continuous inflow of energy makes a difference.

That looks very promising at the theoretical level, but let us look at what really happens when a system is 'open' to receive energy from outside.

A good example is the bottle of iron tonic that your doctor prescribes. It comes in a dark bottle so as to prevent light (random energy) from reaching the medicine. There is a cap with a washer and the bottle says "Keep the cap closed tightly, and put the bottle in a place away from direct sunlight". Why? Because sunlight

(outside energy) destroys the chemicals. Look at the following picture:



It takes very advanced machines in drug factories to manufacture medicines with sufficient purity. However, once such complex and pure medicines are manufactured, ANY random energy only destroys it. Nobody has ever seen a medicine becoming better when it is exposed to air, light, or other chemicals. That is the second law of thermodynamics in operation.

Let us look at another common experience:



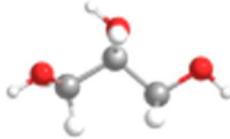
Free Energy From
Any Source Falls On
A Bunch Of Fresh Fruit



The Result, Without Exception,
Would Be Spoiled Fruit



NO exception is known to this. This is another illustration of the second law of thermodynamics. Random energy always destroys and not the other way round. Let us therefore see how a medicine is manufactured



The 'Known' Structure (Blueprint)
Of The Medicine Is There

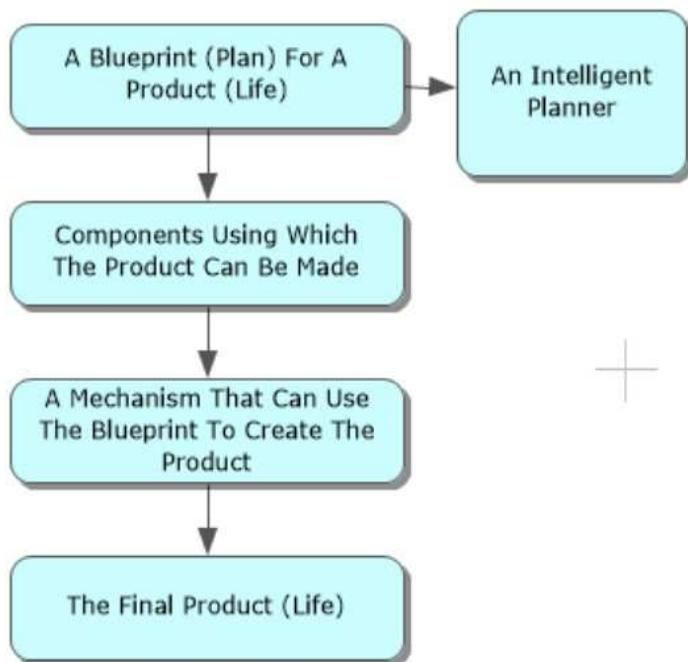


Chemicals Are Mixed To Create
The Above Blueprint



The Final Product Is Obtained

This immediately reminds us that at least one more factor is needed, if order has to come out of disorder in a world dominated by Entropy (disorder). Where there is a blueprint, there would be a planner.



Some people have claimed that a planner is not needed and that if matter and energy are allowed to interact for infinite time, then disordered matter will always go to order.



They sometimes claim that if all the components of a watch are placed in a box and if the box is shaken for a long time, that the components will fall into place and form a perfectly running watch without any help.

Several errors are involved in this argument. First of all, placing of components in a box is not a random event. Rather, each component of a watch is a precisely cut and shaped gear, made with extreme accuracy. Thus this cannot represent a random event. Second, even if one begins with such a system, prolonged shaking will only destroy the gears – it will not put them

together. Time is a destroyer nor a creator of order. That is why things become 'old' with time, and not new.



Many have claimed that the incredible order, symmetry, and beauty seen in snowflakes is an indication that order and beauty can arise without a blueprint. This is again a false claim because the structure of snowflake is a product of the structure of molecules. It is not a randomly produced structure.

An infinite number of patterns are formed on sea-shore, but none of them resemble a snowflake because the patterns formed on sea-shore are truly random. One does not see those waves forming a symmetrical picture similar to what is seen in snowflakes. Nor does one see any other complex shape formed on sand because random energy mixed with matter results only in more randomness, and not in order.

Summary

No matter how you slice it, the Second Law of Thermodynamics makes it very clear that whenever matter and energy are left to themselves to interact, order always goes to disorder and never the other way round.



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About The Author

The author is a specialist in quantum-nuclear physics, and worked on the quark-structure of hadrons as part of his doctoral research.

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[http://creationwiki.org/Johnson C. Philip](http://creationwiki.org/Johnson_C._Philip)

Numerous books written by him can be downloaded free from

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