

Hadean Eon Crossword

Clue	Term
The field of science that is primarily intersetin the atomic element six on the periodic table	Organic Chemistry
Because of its abundance carbon is the fundamental element used to build organic molecules. If it had been more abundant this chemical element might have filled the same role	Silica
In the chemical composition of the sun this atom is the second most abundant	helium
DNA, RNA and protein are part of the central ____ in biology	Dogma
In terms of their water solubility lipids are described as being this	hydrophobic
The charge associated with the oxygen in polar compound water	negative
The sun is this kind of reactor	Nuclear
Inside a lipid vacuoles reaction rates do this	increase
This molten metal forms the core of the planet earth	Iron
Water filled spheres with a bilipid layer with embedded proteins are referred to as these	Protocells
Because of its stability and structure this bipolymer is not a good candidate as the first self replicating set of molecules	DNA
Fusion of two of these atoms is the source of the suns energy	Hydrogen
Water is the universal solvent for these types of molecules and compound	Polar
In the first 4,000 Mya of the solar system as these two large planetary neighbours grew and moved away from the sun and their changing orbital speed ultimately resulted in this planet orbiting the sun twice as often as its neighbour	Saturn
What % of the suns mass is not made up of the two atoms involved in the nuclear fusion react that produces the sun's energy?	Two
Geological eras are combined into these larger units of time	Eons

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Catalytic ribozymes are evidence that this being the first self replicating biopolymer	RNA
The % of matter in our solar system that isn't part of the su	One
The earth was bombarded by these medium sized planetary objects during its early, violent days. Their tremendous forces of their impacts kept the earth in liquid molten form	Asteroids
To the nearest percentage the two most abundant elements in the sun account for this percentage of its mass	100
This gas wasn't present in earth's first atmosphere, its absence was why the early atmosphere was reducing	oxygen
The miller-urey experiment tried to explain the origins of these organic building blocks in the primitive oceans	Biomonomers
Discovery of this virus revered the direction of info flow between DNA, RNA and proteins	HIV/AIDS
The form that water initially took during the formation of the planet	Vapour
These vents in the deepest parts of the oceans may also be the original site of the formation of the first organic chemicals	Hydrothermal
This term describes life's origins as occurring somewhere other than planet earth	pasnspermia
Geological eons are divided into these	Eras
This element is produced by dying red suns and is four throughout the universe	Carbon
The enzyme reverse _____ creates DNA from RNA strands	Transcriptase
In the early history of the planet the sun was weak and the earth was kept warm by these gases in its atmosphere	greenhouse gases
The highly organized charged surface of these inorganic impounds may have been critical for the assembly of some of the first self replicating biopolymers	Clays
This process creates proteins from mRNA molecules	Translation

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These forces held the earths atmosphere in place	gravitational forces
From about 4,800 Ma to 3,800 Ma this eon saw the formation of our solar system and planet earth	Hadean Eon