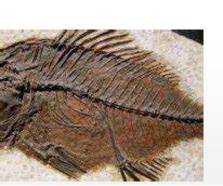


Origin of Universe & Life

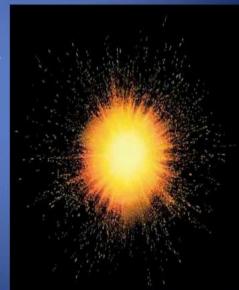




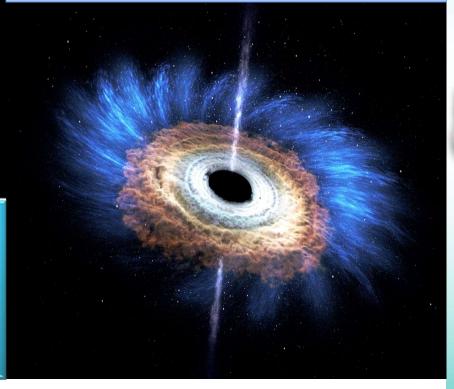
When scaling, group all elements to be scaled. Scale as needed. Use the "Increase Font Size," "Decrease Font Size" buttons or manually change the font size for the editable text.

Time begins

- The universe begins
 ~13.7 Billion years ago
- The universe begins as the size of a single atom
- The universe began as a <u>violent expansion</u>
 - All matter and space were created from a single point of pure energy in an instant

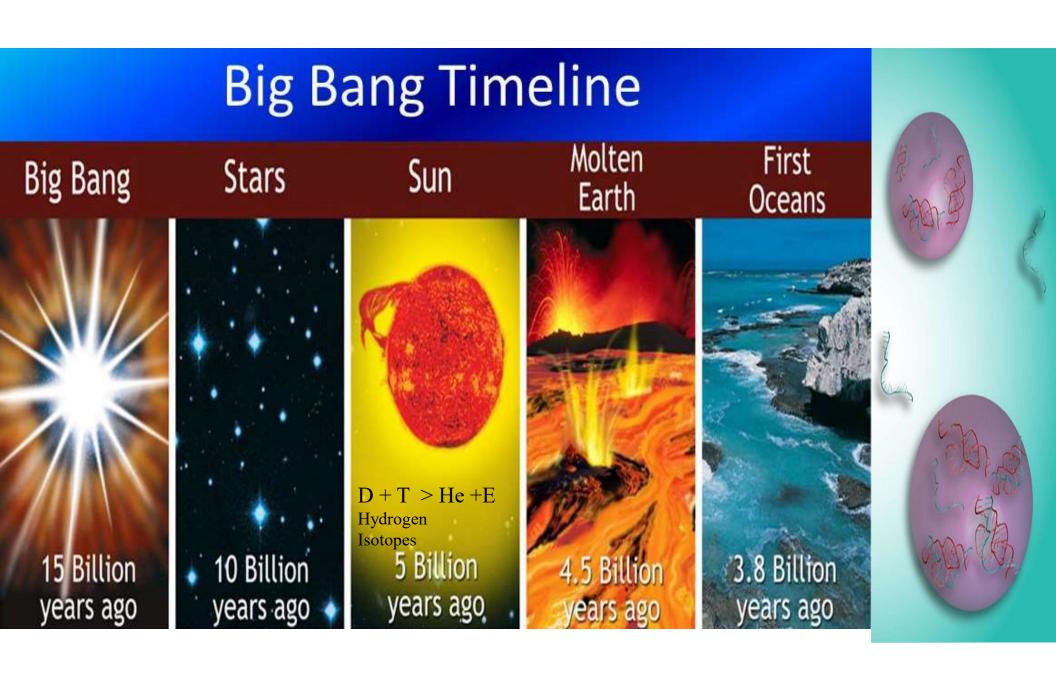


QURAN SURAH AZ ZARIYAT 47 IN وَالسَّمَاءَ بَنَيْنَاهَا بِأَيْدٍ وَإِنَّا لَمُوسِعُونَ لَمُوسِعُونَ

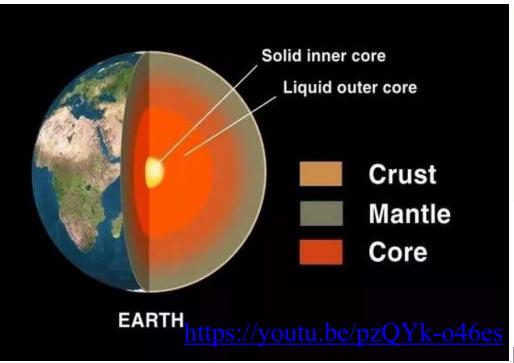




وَأُولَمْ يَرَ الَّذِينَ كَفَرُوا أَنَّ السَّمَاوَاتِ َالْأَرْضَ كَانَتَا رَتْقًا وَاتِ َالْأَرْضَ كَانَتَا رَتْقًا فَمَا فَفَتَقْنَاهُمَا AlAnbeaa 30







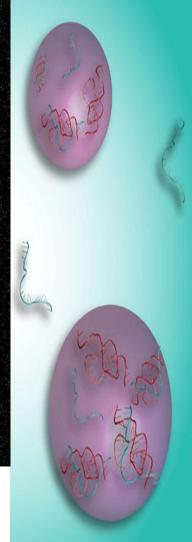
Massive chunks of rock known as asteroids have broken apart throughout the history of our solar system, sometimes through collisions with other asteroids, showering down smaller chunks of rock. The meteorite fragments that came into Earth's atmosphere, and did not burn up in the intense heat, brought more iron to the planet's surface.

استنبط العلماء من قوله تعالى:{وَأَنزَلْنَا الْحَدِيدَ}،[۲] أنّ معدن الحديد لم يخرج من الأرض إنّما نزل من السّماء لأنّ الله تعالى قال أنزلنا ولم يقل خلقنا

Theia







https://youtu.be/Jvw1n4VdZCo?t=44

 $\underline{https://youtu.be/Jvw1n4VdZCo?t=52}$

Where does life come from?

Life must come from life

But what about the beginning?

Could Life have developed on Earth under abiotic conditions?

Earth is approximately 4.5 billion yrs old

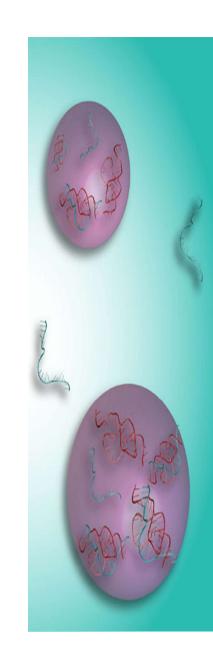
 Hot, barren, rocky, and bombarded with meteorites

 Atmosphere composed of nitrogen, carbon monoxide, hydrogen, and water vapor but NO OXYGEN

 Hot lava, ultraviolet light, poisonous gases, lightning

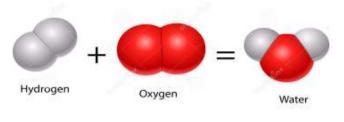




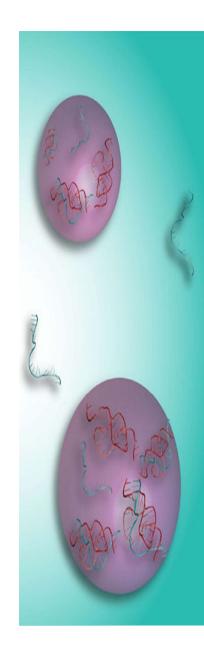


Most abundant element in the universe was Hydrogen then Oxygen.

Reaction of Hydrogen and Oxygen to Water

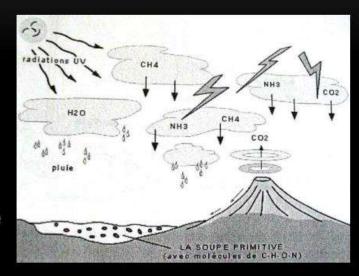


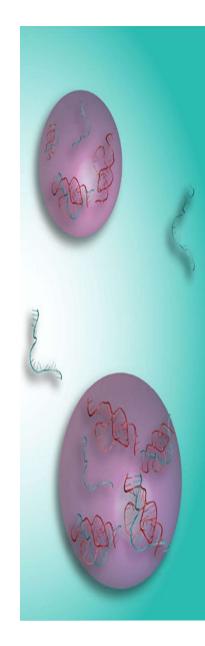
$$2H_2 + O_2 = 2H_2O$$



A. I. OPARIN AND J.B.S. HALDANE'S HYPOTHESIS

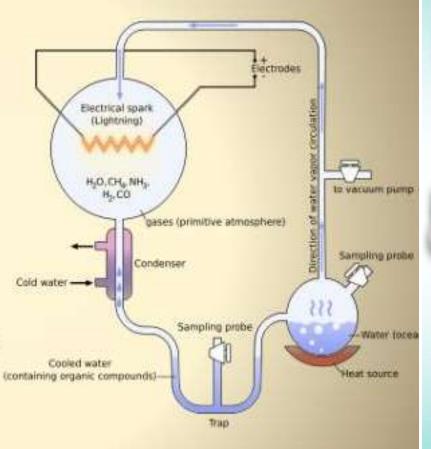
- In the 1920s, Russian chemist A.I.
 Oparin and British scientist J.B.S.
 Haldane hypothesized that Earth's
 early atmosphere was a reducing
 (electron-adding) environment, in
 which organic compounds could
 have formed from simple
 molecules.
- The energy for this synthesis came from lightning and intense UV radiation.
- Haldane suggested that the early oceans were a solution of organic molecules, a "primitive soup" from which life arose.

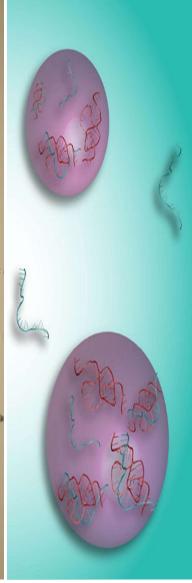




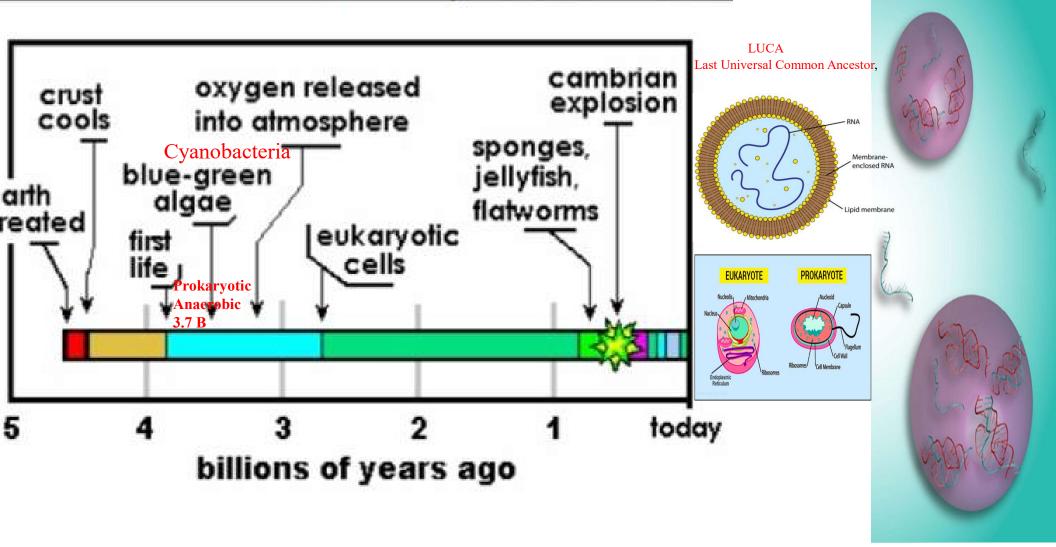
Origin of Life - Abiogenesis

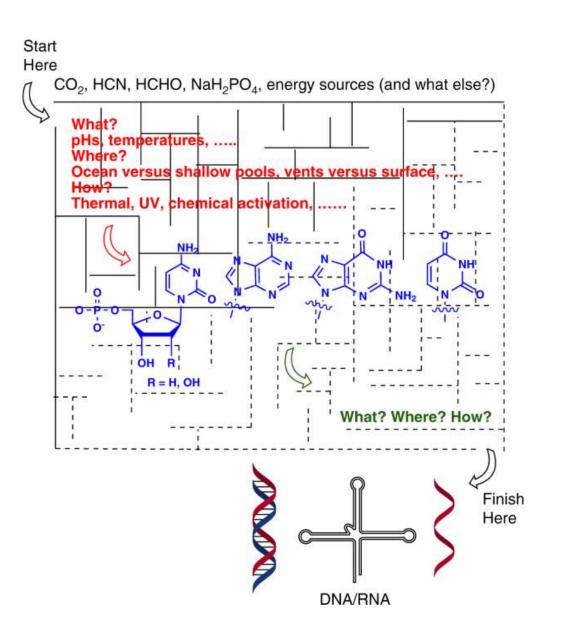
- The early atmosphere was likely reducing (gaining electrons)
- The Miller-Urey experiments showed that amino acids can be catalyzed by electrical activity (lightning) in this environment.
- Other theories have been proposed

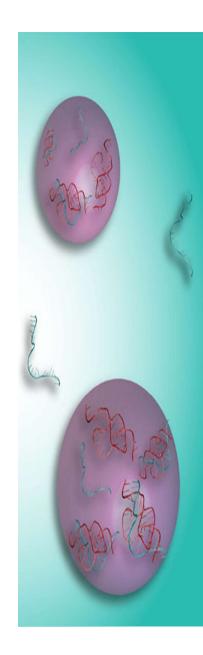


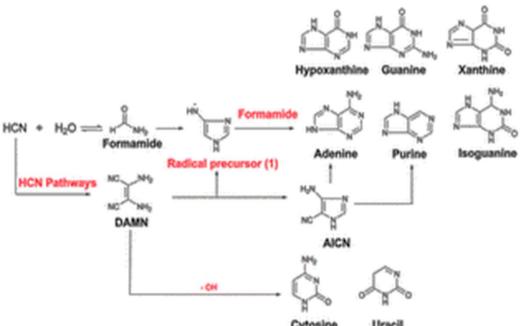


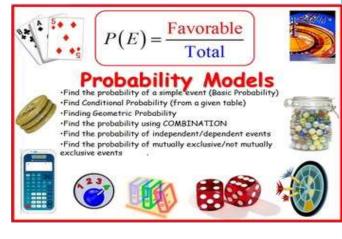
A history of life on earth









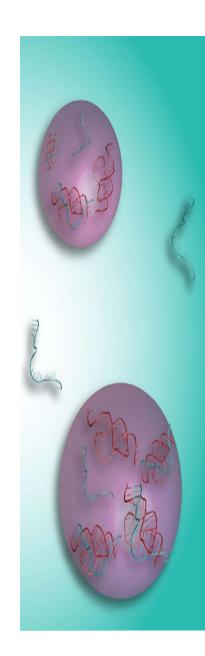


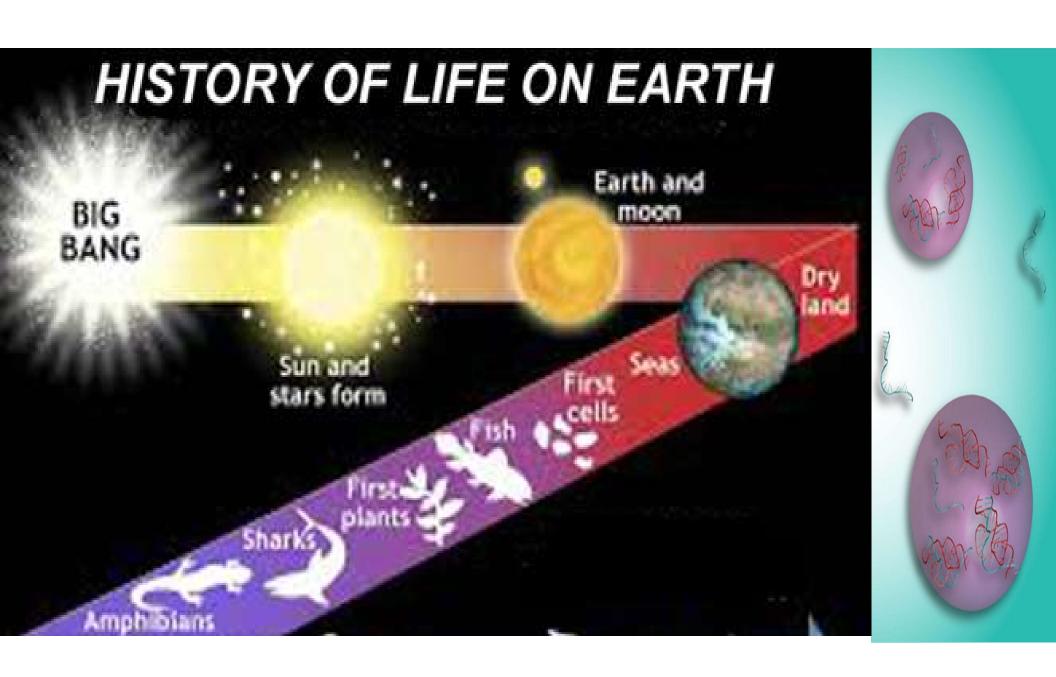
Your chances of winning the Powerball – if you were to play only one set of numbers, would be 1 in 292,201,338. You can of course improve your odds of winning by purchasing more tickets and playing more combinations, but realistically speaking, it won't make much of a difference. Numbers are from 1-69.

3,700,000,000
Billion Years
Few molecules and
Good probability
Heat,
Water,
Catalysts



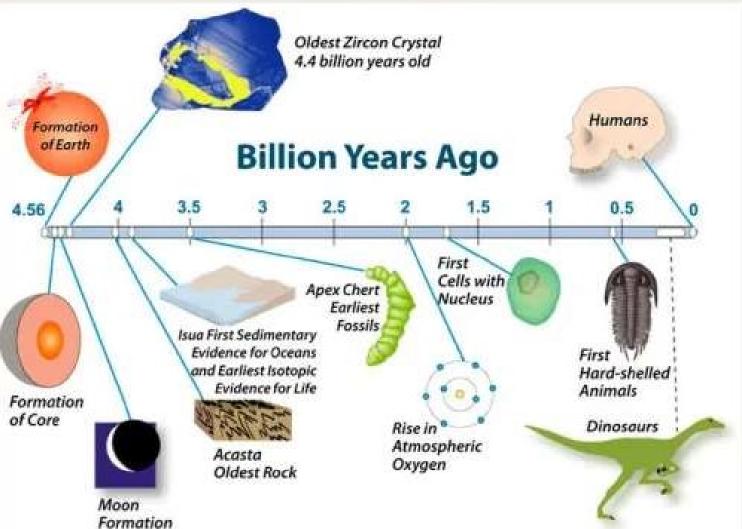
https://youtu.be/cJWe2jv1kR4?t=122

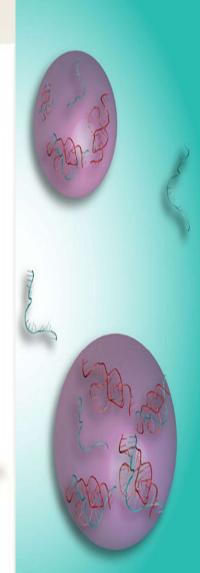




his timeline shows the history of life on

arth.





(فَلَا أَقْسِمُ بِالْخُنَّسِ ، الْجَوَارِ الْكُنَّسِ)

التكوير/15-16

أما **الكنس**: تكنس ما

حولها، كَنَسَ الموضع يَكْنُسُهُ، بالضمّ، كَنْساً: كَسَح القُمامَة عنه. أي أن الله تعالى وصف الكواكب بأنها تنقبض على نفسها وتجري في السماء وتكنس ما حولها من انقاض أو الكواكب بأنها تنقبض على نفسها وتجري في الوهلة الأولى غريب وعجيب! وهذا ما سنوضحه .

Black Holes

You can't see ِ الْخُنَّس

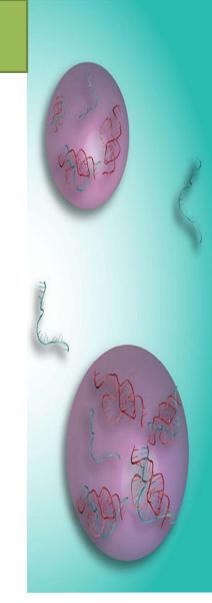
: Attracts, Absorbs like vacuum

الطارق والنجم الثاقب نجم نيتروني:

في عام (1967م) رصد العلماء موجات راديوية كهرومغناطيسية من خلال بعض التلسكوبات الراديوية، لقد التقطت إشعاعات لنجوم مجهولة، وبعدما قام العلماء بدراسة هذه النجوم دراسة دقيقة على مدى أكثر من ثلاثين عاماً وجدوا بأن هذه النجوم أكبر من الشمس بعدة أضعاف، وتتشكل نتيجة انفجار النجوم، فعندما ينفجر هذا النجم ويتهاوى على نفسه فإن مادته تتحول وقد قدر عدد النجوم النيوترونية في مجرتنا بمائة ألف نجم ومن الطبيعي أن إلى نيوترونات، تحتوي مليارات المجرات الأخرى على مئات الآلاف من النجوم النيوترونية الطارقة الثاقية

فالسماء إذن تمتلئ بها.

وَالسَّمَاءِ وَالطَّارِقِ (1) وَمَا أَدْرَاكَ مَا الطَّارِقُ (2) النَّجْمُ التَّاقِبُ



الَّذِي أَحْسَنَ كُلَّ شَيْءٍ خَلَقَهُ وَبَدَأَ خَلْقَ **الإنسان مِنْ طِينٍ** * ثُمَّ جَعَلَ الَّذِي أَحْسَنَ كُلَّ شَيْءٍ خَلَقَهُ وَبَدَأَ خَلْقَ الإنسان مِنْ مَاءٍ مَهِينٍ ﴾ [السجدة

﴿ فَاسْتَفْتِهِمْ أَهُمْ أَشَدُّ خَلْقًا أَمْ مَنْ خَلَقْنَا إِنَّا **خَلَقْنَاهُمْ مِنْ طِينٍ لَازِبٍ** ﴾ [الصافات: 11].

﴿ وَلَقَدْ خَلَقْنَا الإنسان مِنْ صَلْصَاكٍ مِنْ حَمَا مَسْنُونٍ ﴾ [الحجر: 26].

﴿ خَلَقَ الإنسان مِنْ صَلْصَاكٍ كَالْفَخَّارِ ﴾ [الرحمن: 14]

﴿ هُوَ الَّذِي خَلَقَكُمْ مِنْ تُرَابٍ ثُمَّ مِنْ نُطْفَةٍ ثُمَّ مِنْ عَلَقَةٍ ﴾ [غافر: 67]

"وَجَعَلْنَا مِنَ الْمَاءِ كُلَّ شَيْءٍ حَيٍّ أَفَلَا يُؤْمِنُونَ" (الأنبياء 30) وَهُوَ ٱلَّذِى خَلَقَ مِنَ ٱلْمَآءِ بَشَرًا(الفرقان - 54)

خَلْقَ الإنسان مِنْ طِين

مِنْ تُرَابِ

َمِنَ الْمَاءِ كُلَّ شَيْءٍ حَيِّ

ُ خَلَقْنَاهُمْ مِنْ طِينِ لَازِبٍ





