

Name: _____ Period: _____



One Strange Rock - "[Genesis](#)"

1. According to Will Smith, what are the three ingredients for the magical brew?.
2. Where did the elements in our bodies come from?
3. How long is the Lechuguilla cave?
4. What do the scientists collect in the cave?
5. What is found in the cave that is necessary for life?
6. How long does it take for water to work its way down to the cave?
7. What is the basic unit of life?
8. What does water give us?
9. How often does lightning strike?
10. What were Urey and Miller able to create in their experiment?
11. What were other sources of energy in early Earth?
12. Where do scientists believe that life began?
13. Why do scientists believe that life began there?

14. What element was needed in the stardust?
15. How do Hindus feel about death?
16. Why do they burn the bodies?
17. Carbon is the ultimate _____.
18. Why is carbon so important?
19. What is so amazing about spider silk?
20. What are the properties of spider silk dependent upon?
21. What is one of the most complex molecules?
22. What was missing from the recipe of life?
23. What happens when there is too much water?
24. What is containing the ingredients inside cells?
25. What is LUCA?
26. All life today uses the same basic _____.
27. What does this sameness point to?
28. Where are scientists looking for alternative life forms?
29. What planet's moon may have life?
30. What makes Earth so special?

Name: _____ Period: _____

One Strange Rock - "[Genesis](#)"

1. According to Will Smith, what are the three ingredients for the magical brew?
Magic liquid, stardust, and energy
2. Where did the elements in our bodies come from?
Stardust
3. How long is the Lechuguilla cave?
150 miles
4. What do the scientists collect in the cave?
Bacteria
5. What is found in the cave that is necessary for life?
Water
6. How long does it take for water to work its way down to the cave?
10,000 years
7. What is the basic unit of life?
cells
8. What does water give us?
Water dissolves rock and other substances so molecules can interact
9. How often does lightning strike?
100/sec = 8 million times a day
10. What were Urey and Miller able to create in their experiment?
Organic molecules
11. What were other sources of energy in early Earth?
Meteors, volcanic eruptions, super tides churning the seas
12. Where do scientists believe that life began?
Hydrothermal vents
13. Why do scientists believe that life began there?
Presence of chemicals, energy and water all in one place

14. What element was needed in the stardust?
Carbon
15. How do Hindus feel about death?
It's a cycle
16. Why do they burn the bodies?
To return the elements
17. Carbon is the ultimate building block.
18. Why is carbon so important?
It is able to bond in many ways
19. What is so amazing about spider silk?
It is thin, strong, sticky, and stretchy
20. What are the properties of spider silk dependent upon?
How the carbons are bonded and assembled.
21. What is one of the most complex molecules?
DNA
22. What was missing from the recipe of life?
A pot to hold it all together
23. What happens when there is too much water?
It is too dilute and molecules won't ever bump into each other.
24. What is containing the ingredients inside cells?
membranes
25. What is LUCA?
The last universal common ancestor
26. All life today uses the same basic chemistry.
27. What does this sameness point to?
It all originated from the same place.
28. Where are scientists looking for alternative life forms?
Deep sea caves
29. What planet's moon may have life?
Saturn
30. What makes Earth so special?
It's our home