

### Prediction Guide - History of Earth

Consider the following statements and decide which you think are true and which you think are false.

1.    \_\_\_\_\_ T            \_\_\_\_\_ F Earth is about 500 million years old.
  2.    \_\_\_\_\_ T            \_\_\_\_\_ F Dinosaurs were still around when the first humans appeared.
  3.    \_\_\_\_\_ T            \_\_\_\_\_ F Dinosaurs went extinct about 65 million years ago.
  4.    \_\_\_\_\_ T            \_\_\_\_\_ F Humans have existed for about 3,000 years.
  5.    \_\_\_\_\_ T            \_\_\_\_\_ F Earth once had very little oxygen in its atmosphere.
  6.    \_\_\_\_\_ T            \_\_\_\_\_ F Life first appeared on Earth more than 4 billion years ago.
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## Prediction Guide - Earth Science

Consider the following statements and decide which you think are true and which you think are false.

1. \_\_\_\_\_ T          \_\_\_\_\_ F      Africa and South America were once connected.
  2. \_\_\_\_\_ T          \_\_\_\_\_ F      The continents stopped moving before life started on Earth.
  3. \_\_\_\_\_ T          \_\_\_\_\_ F      Most volcanoes happen at the edge of continents.
  4. \_\_\_\_\_ T          \_\_\_\_\_ F      Tectonic plates are only under continents, but not oceans.
  5. \_\_\_\_\_ T          \_\_\_\_\_ F      Scientists use GPS to see how tectonic plates are moving.
  6. \_\_\_\_\_ T          \_\_\_\_\_ F      Hot things are heavier than cold things.
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## Prediction Guide - *E. coli* Bacteria

Consider the following statements and decide which you think are true and which you think are false.

- 1) \_\_\_\_ T \_\_\_\_ F Individual bacteria can be seen with the naked eye.
- 2) \_\_\_\_ T \_\_\_\_ F Bacteria grow by splitting in half in a process called mitosis.
- 3) \_\_\_\_ T \_\_\_\_ F All bacteria are dangerous to humans.
- 4) \_\_\_\_ T \_\_\_\_ F *E. coli* can make you very sick and even cause death.
- 5) \_\_\_\_ T \_\_\_\_ F Bacteria are used to make insulin for treatment of diabetes.
- 6) \_\_\_\_ T \_\_\_\_ F More than half of our bodies are made up of *E. coli* and other microbes.
- 7) \_\_\_\_ T \_\_\_\_ F Starting with just one *E. coli* bacteria, the population can grow to more than a million bacteria in one day.

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