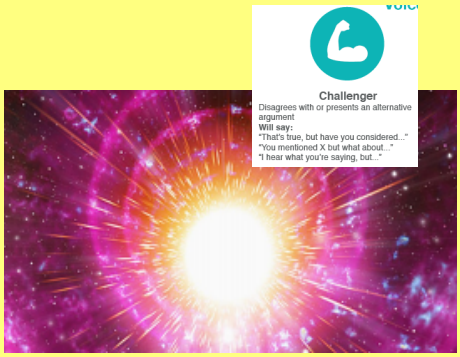
LO: to understand the key components of the Big Bang Theory

Big Bang Theory: The rapid expansion of matter commonly thought to be the beginning of the universe.

In trios on a post-it, write a definition for 'The universe'. At the end of the lesson, can you edit your definition? Check definition below at the end of the lesson.

Answer on the next slide



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Answer

The universe is defined as everything we can touch, feel, sense, measure or detect. It includes living things, planets, stars, galexies, dust clouds, light and even time. Before the birth of the universe, time, space and matter did not exist.

Order the following events

You may want to print and use as a trio activity.

1) Particles began to form; they were called protons and neutrons

2)Our solar system and the sun was formed.

3) When the universe exploded, it created space, time and galaxies.

4) The universe cooled down and allowed more elements to form

5) The universe was inside a bubble that was smaller than a pinhead.

6) Stars began to form.

7) Protons and neutrons began to join together to make simple chemical elements.

8) The Earth was formed by rocks colliding and merging with one another.

Answer on the slide

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Answers: 5, 3, 1, 7, 4/6, 2, 8

Who believes in the Big Bang Theory? Most of the science community and astronomers.

One big piece of evidence to support the Big Bang theory is that galaxies and stars are now moving further away from us. This supports the idea that the Universe was once trapped inside a tiny bubble.

https://spaceplace.nasa.gov/big-bang/en/

Activity: using the facts on the previous page, can you draw your interpretation of what the Big Bang theory may have looked like.