

Big Bang Theory

To discuss ...

- What do scientists say came from the smallest spot you can make with your fingers..?
 - The entire Universe.
- What's the name of this idea – this “theory”..?
 - The “Big Bang Theory.”
- What's a “theory”..?
 - An idea scientists use to explain something, based on evidence, but without enough evidence to know for sure that it's right.
- Do you remember what scientists say is the evidence that supports the “Big Bang Theory”..?
 - They measured the motion of the galaxies.
(Scientists discovered that our galaxy, and all the galaxies in the Universe, are flying apart as if they were thrown out from a single point in space...in one gigantic explosion.)
 - They measured the temperatures in outer space.
(If there was a gigantic explosion, scientists predicted there should be a little heat left over, a “warm glow” in outer space. They conducted experiments and found it – a little warmth, even in the coldest, emptiest parts of outer space.)
- In the “Big Bang,” scientists say everything came from nothing, pouring out like a fire hose from a single, tiny spot in space. How can that be..?
 - Scientists have no idea.
This is where scientists invite everyone to sit at the same table, and wonder along with them. They have no idea how everything could come from nothing.

Scientists try to follow the evidence wherever it leads, in order to develop a scientific understanding of the world. The “Big Bang Theory” is now widely accepted among scientists as the best explanation for the creation of the Universe. At the same time, it concerns an event that happened so long ago (about 15 billion years ago) it may lie outside the limits of what science can ever explain with certainty.