




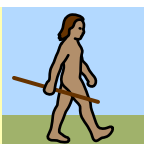



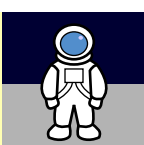


# Ten Events in the History of the Universe

Ten events spanning the history of the universe organized by powers of ten.

|           | Date Range                         | Date                    |  | Event                       |
|-----------|------------------------------------|-------------------------|--|-----------------------------|
| $10^{10}$ | tens of billions of years ago      | 13-14 billion years ago |    | Universe began              |
| $10^9$    | billions of years ago              | 4.5 billion years ago   |    | Earth formed                |
| $10^8$    | hundreds of millions of years ago  | 500 million years ago   |    | First fossilized animals    |
| $10^7$    | tens of millions of years ago      | 65 million years ago    |    | Extinction of the dinosaurs |
| $10^6$    | millions of years ago              | 3 million years ago     |   | First stone tools made      |
| $10^5$    | hundreds of thousands of years ago | 300 thousand years ago  |  | First modern humans         |
| $10^4$    | tens of thousands of years ago     | 40 thousand years ago   |  | First figurative art        |
| $10^3$    | thousands of years ago             | 5 thousand years ago    |  | First writing               |
| $10^2$    | hundreds of years ago              | 1492                    |  | Columbus: east meets west   |
| $10^1$    | tens of years ago                  | 1969                    |  | First people on the moon    |

Memorize these ten dates as a framework for understanding deep time.