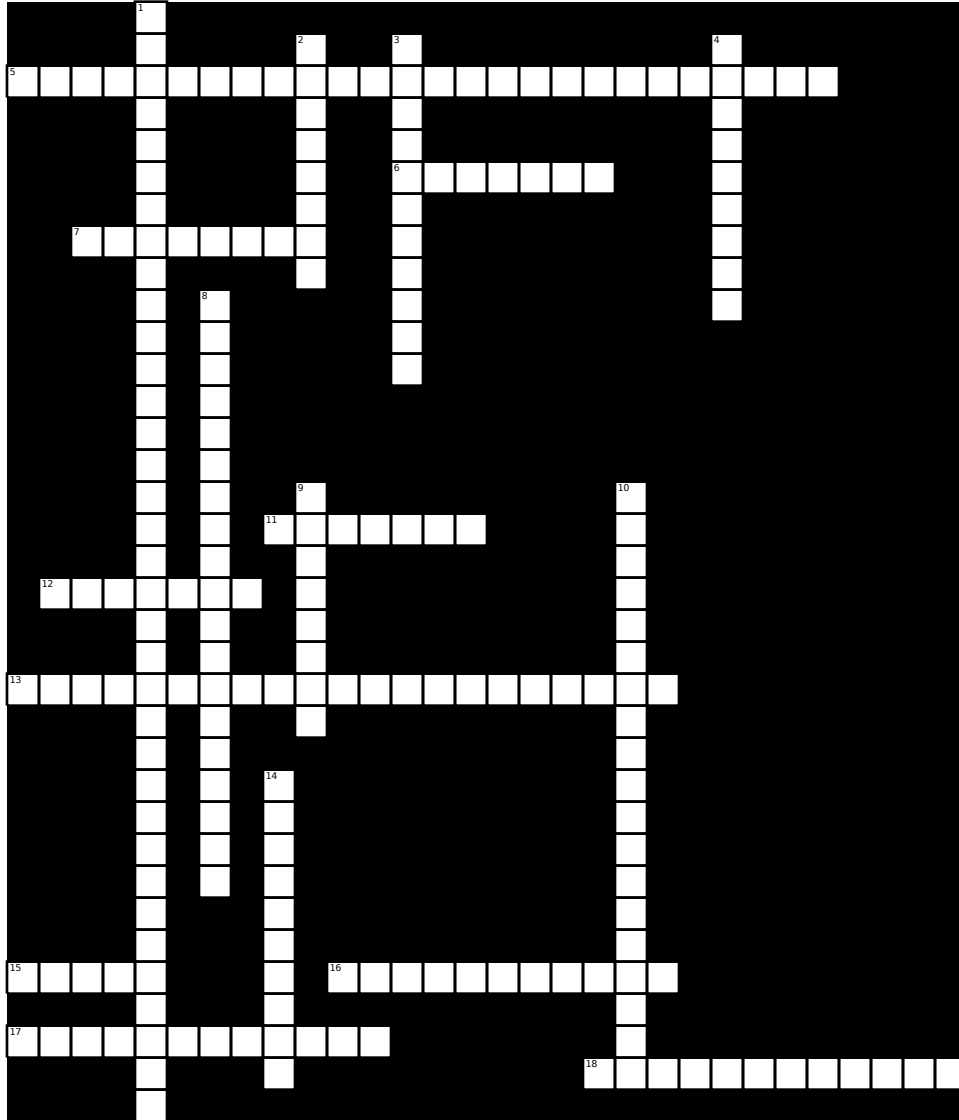


# What is Big History? Crossword Challenge

Mr. Budd

Complete this crossword to help your understanding of the key concepts from Unit 1 of the Big History Project.



- Across**
- 5 An approach to a subject that uses the viewpoints of many different kinds of scholars about the same topic. For instance, Big History relies on information from cosmologists, astrophysicists, geologists, chemists, paleontologists, biologists, anthropologists, and historians, as well as experts in other disciplines, to learn about the past.
  - 6 The study of past events.
  - 7 A set of beliefs and practices that concern humanity's relationship with the spiritual, the supernatural, and reality.
  - 11 The natural tendency of all things to move from order to disorder. (Note: Although often called the law of entropy, it is more accurate to refer to it as the second law of thermodynamics.)
  - 12 An approach to discovering knowledge about the natural world that relies on testing ideas through observation or experiment.
  - 13 Specific set of conditions necessary to enable greater complexity. The reference is to the fairy tale Goldilocks and the Three Bears, in which Goldilocks looks for the porridge, chair, and bed that are "just right."
  - 15 Degrees of magnification, or perspective, used to measure time, space, and size.
  - 16 Components that are put together to form something new and more complex.
  - 17 A narrative about the beginning of the Universe and humanity.
  - 18 The study of the properties and interactions of planets, stars, galaxies, and other astronomical objects.

- Down**
- 1 Moments in the history of the Universe when specific ingredients under the right "Goldilocks Conditions" come together to create something new and more complex.
  - 2 A theory, first articulated in the 1920s, proposing that the Universe started out extremely hot and dense and gradually cooled off as it expanded.
  - 3 A unified account of the entire history of the Universe that uses evidence and ideas from many disciplines to create a broad context for understanding humanity; a modern scientific origin story.
  - 4 The study of the Universe on its largest scales, including its origin.
  - 8 A method of expressing very large and very small numbers to avoid using the many zeros that would be required otherwise.
  - 9 All the matter and energy in existence, as well as the space that contains it.
  - 10 Properties of a complex system that are not present within its parts but that emerge only when those parts are combined.
  - 14 A quality of an object or system that has diverse components precisely arranged in connection with one another (so that new properties emerge which did not exist in the components alone).