Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Cosmos Video Worksheet

Episode 2: “Some of the things that molecules do”

1. Why did wolves decide to form a partnership with humans? How did this help humans as well?
2. What method was used to develop the diverse breeds of dogs we see today?
3. What is the comparison made between the number of atoms in a DNA molecule and stars in the universe?
4. What led to the natural selection of the polar bear in the colder climates of North America after a mutation occurred in the DNA?
5. Nature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ those that increase chances of survival. Naturally

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ those better suited to survive.

1. What are some examples of organisms that show similarities in DNA with humans? (Name at least 2)
2. How have organisms adapted to their environment using natural selection? ( At least 2 examples)
3. Why do our eyes still have distortions after years of the eye evolving?
4. How many mass extinctions have occurred in the last 500 million years?
5. What caused the greatest mass extinction of species at the end of the Permian period?
6. What organism can be found in almost all environments and has survived all of the mass extinctions?
7. What other object in our solar system has the potential to contain life? How is it like Earth?
8. How long has life been evolving on Earth?
9. Pick one of our prior units that you saw something from in the video. How are concepts from that unit linked to the study of evolution?