

STEAM Questions

1. The Skull is an amazing example of creativity, color, and form. In this painting the teeth of the skull stand out. Teeth are made up primarily of crystalline calcium phosphate. What is the symbol for calcium on the Periodic Table of Chemical Elements? What manufacturing process uses the largest amount of calcium?
2. Archaeologists along with other scientists discovered Neanderthals (*homo neanderthalensis*) lived along modern humans (*homo sapiens*) for thousands of years in Europe about 40,000 years ago. Typically the cranium (skull) is the most useful skeletal feature of the primate body for identifying the species of a primate. How do *Homo Sapiens* skulls differ from Neanderthal skulls?
3. Most of us will never forget the face on this painting. The technology of facial recognition is based on mathematics. How is math used to recognize the identify of a person using facial identification technology?
4. Jean-Michael had a tendency to feature the human head and by inference the incredible human brain in his art work. The human skull is a very thick bone. Why is it so thick? How many parts does the brain have? Does each part have different functions? If yes, identify the known functions.

