

FRESHMAN HAVE BOTH LANGUAGE ARTS & SCIENCE READING SUMMER WORK

- I. Read the Prologue, Chapter 1: The Sixth Extinction, and Chapter 2: The Mastadon's Molars of *The Sixth Extinction*, by Elizabeth Kolbert
- II. We will be discussing these sections very early in the year; you may find it valuable to take notes as you read to be used in our class discussions. We will also continue to read and discuss chapters of this book throughout the course as they become relevant.
- III. After reading, write and submit a one page minimum/two page maximum paper (1 inch margins, double spaced, 12pt font, Times New Roman, your name in the header) that includes a paragraph on each of the following topics:
 1. Think back to the scientific method you learned in middle school, what are the similarities and differences between the scientific method you've learned and the way in which discoveries were made in this reading? Support your statement with information from the text.
 2. How is the word *theory* used in this section of the book, be sure to use evidence from the text to support your answer.
 3. Write two big picture questions about what science is that we could discuss in class. Be sure to explain why your questions are important to our discussion of nature of science and to pull information from the text in your explanations.
- IV. As you read over the summer, begin to think about the following questions (you do not need to submit anything for this part):
 1. What is Science and how does it work?
 2. How can we differentiate real science from topics that look like science?
 3. How does the Earth and Earth systems relate to climate change?
 4. What is the evidence for climate change?
 5. How has human energy production contributed to our climate crisis?
 6. What is the impact of climate change on water quantity and quality?
 7. How have species evolved to adapt to a changing climate in the past, how are they evolving currently?

This assignment is due by Sunday, August 26th at 9:00 p.m. and should be submitted to your Integrated Science course on Schoology.