**Sustainability: Elon Musk’s Projects**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_\_\_\_\_\_**

This year we are going to be taking a look at **sustainability**. Specifically, we are going to be connecting sustainability to science by looking at, and researching **green energy**. We will be learning about certain individuals who are attempting to make our future-planet a better place to live.   
  
The first person who we are going to research, read about and discuss is **Elon Musk**.

**Your task (read and follow instructions carefully):**

**1)** Watch the TEDtalk with Elon Musk (you may need to share a set of headphones with another person if you do not have your own pair). Pay close attention to the video. The video is about 20 minutes long.   
  
**Link to video:  
https://www.ted.com/talks/elon\_musk\_the\_mind\_behind\_tesla\_spacex\_solarcity**

2) Answer the questions on the next page in the space provided. This worksheet will be collected at the end of the block. Please answer the questions on the page provided.  
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**Before you get started:**

* Understand the meaning of Green Energy (also known as renewable energy)

**Green (Renewable) Energy:** is generally defined as energy that comes from resources which are naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat.

* Recognize that some of these topics might be tricky to fully wrap your head around at first. I don’t expect you to understand everything that you see or hear about in the videos we watch. We will talk throughout the year to increase your understanding of some of the words and topics from these videos. ASK QUESTIONS – the best way to understand something is to seek clarification. If you are totally lost, you can ask a friend or use the internet to look up some key words or projects for a better understanding.
* Be a critical and creative thinker! Watch the video and think about how some of the ideas discussed may impact your life. Many of the concepts that Elon is working on will directly influence the way your generation lives!

**Questions: /14**

1) What is your impression of Elon Musk? Why do you think he is so passionate about the projects he is working on? (2 marks)

2) Define sustainability in your own words. You can use the internet, but put your answer in your own words. (2 marks)

3) Describe each of Elon Musk’s projects (Tesla, SpaceX or Solar City) and explain what the project is about. You can use the internet to further research the project if needed. Explain, briefly, what the general idea of the project is and how you think it relates to sustainability. (4 marks)

Tesla:

SpaceX:

Solar City:

4) Think forward 20 years; Elon Musk’s projects were successful. How have his initiatives changed the way you and I live? How is the earth different from now (2018). You may use the back of the sheet to answer questions if you run out of room. (6 marks)