



## 8<sup>th</sup> Grade – Science, Technology, and the Internet

[8th grade Science Standards:](#)

<http://www.cde.ca.gov/ci/sc/cf/documents/scienceframework.pdf>

### ***MS-ESS1- 4.***

Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion- year-old history.

### ***MS-ESS3- 4.***

Construct an argument supported by evidence for how increases in human population and per-capita consumption of natural resources impact Earth's systems.

### **Learning Objectives (LO):**

Plate tectonics accounts for important features of Earth's surface and major geologic events. As a basis for understanding this concept: a. Students know evidence of plate tectonics is derived from the fit of the continents; the location of earthquakes, volcanoes, and midocean ridges; and the distribution of fossils, rock types, and ancient climatic zones.

### **Napa Valley Unified School District's "4Cs":**

Critical Thinking, Collaboration, Communication, and Creativity



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### Lesson Plan 3:

Vine Trail Tour using Google Tour Builder

(IBL / PBL) Vine Trail Google Tour Project

**Guiding Question (GQ):** How can we use technology to share what we have learned about the earth and the Vine Trail?

First, watch the YouTube tutorial on Google [Tour Builder](https://www.youtube.com/watch?v=79y7mSVAq8) (<https://www.youtube.com/watch?v=79y7mSVAq8>) or for a more detailed tutorial go to [Earth Outreach](https://www.google.com/earth/outreach/index.html): (<https://www.google.com/earth/outreach/index.html>)

As you travel the Vine Trail you will notice that there are informational signs that present information about the particular spot you are in. Write down the number of this location for future reference. Take pictures and videos of several of these locations. You will use these pics/ videos for your Google Tour.

When you return to the classroom login to Chrome and go to [Google Tour Builder](https://tourbuilder.withgoogle.com/) (<https://tourbuilder.withgoogle.com/>), sign in and build your tour. Use the location point numbers to mark the map of the locations you explored. Add your pictures and videos to these locations and use the Quest research information that you learned to explain how these locations were formed.

Use the [Vine Trail website](https://vinetrail.org/) (<https://vinetrail.org/>) for your detailed information about the Vine Trail.