

# Teacher Guide for Science Trek 360°

Utilizing [Science Trek 360°](#) is a great way to make learning more accessible and fun for your students. Students will become explorers and navigators of their own learning by literally immersing themselves in the content provided. To ensure that you and your students get the most out of your [Science Trek 360°](#) learning experiences, here are 5 SCIENCE TREK 360° SUCCESS TIPS:

1. **Start with Your Standards**- Like any trip, you have to know where you're going in order to get there. What standards are you hoping to address during the experience? How many standards will you be able to hit? Preview the 360° video links (below) and brainstorm activities that will provide evidence that students have demonstrated understanding of these standards.
2. **Build Student's Background**- Each Science Trek 360° experience comes with support material in a PDF format. Read through this material and create lessons and tailor content so it is accessible for all of your students. Click below to access support material for your experience.

[Bees: Support Materials](#)

[Nuclear Energy: Support Materials](#)

[Endangered Species: Support Materials](#)

[Volcanoes: Support Materials](#)

[Botany 360: Support Materials](#)

[Solar Eclipse: Support Materials](#)

3. **Use a Common Vocabulary**- When building background use the same vocabulary provided in the 360° learning experience. You will find this vocabulary linked within the support material at the end of the **Background Reading** section, or you can find glossaries on the [Science Trek](#) website under content topics.
4. **Classroom Set-Up Success**- It is necessary to create a space where virtual learning can take place. I recommend using no more than 6-8 devices. Logistically it is difficult to ensure that 25-30 devices are working at the same time and devices can be expensive. Included at the end of this guide are some sample set ups that you can use.
5. **Students Should Demonstrate What They've Learned**- In order for students to synthesize the knowledge gained from their experience, students should have the opportunity to demonstrate what they have learned. This culminating activity is usually done at the end of a unit. You can use Science Trek 360° as a formative assessment to build knowledge for the culminating assignment/ assessment or you can use the 360° videos as a way to further enrich student's learning as they are working on their demonstrations of knowledge. (See example B below.)

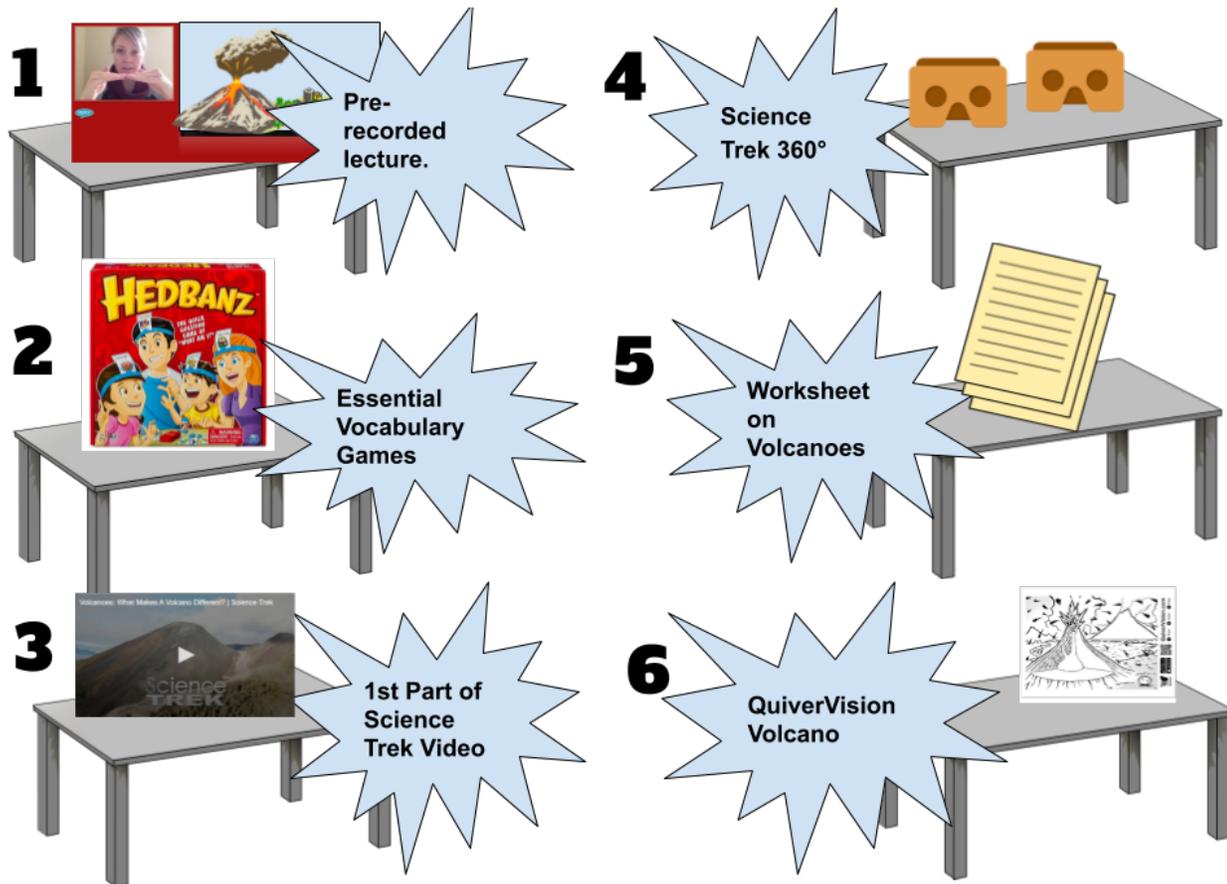
## Setup and Arrangement

### **Examples of Classroom Set-Ups**

Below are some classroom set-ups that you can use. These examples are meant to guide and inspire. Ultimately, you know what is best for your learners.

## Example A- Learning Stations

In this set-up, students will spend 15-20 minutes at each station. The lesson will take place over 2 days and last about 45-60 minutes each day. I usually create a packet that the students use to rotate through at each workstation.



**Station 1-** Pre-recorded lecture. I have gradually started to create a library of all of my traditional lectures with [Screencastify](#) or [Screencast-O-Matic](#). This allows me to be in 2 places at once. Students should take notes on the lecture.

**Station 2-** Vocabulary games. On the [Science Trek](#) website you can find glossaries for all 360° content. Just find your content and click on the **Glossary** tab. Use this to create your games. I like to create Hedbanz cards. Other options are card games, a [Kahoot](#) or [Quizizz](#), etc. [Click here for the volcano glossary.](#)

**Station 3-** [Science Trek video on volcanoes](#). The video is 36 minutes long. Students watch the first 20 minutes on devices at this station (they will complete the rest later). After students have completed

all of their stations they can watch the remainder of the video on their own or we watch will watch the rest as a class.

**Station 4-** [Science Trek 360°](#) station. Join Joan Cartan-Hansen as she takes you through these immersive learning experiences. [Click here for tips on how to enjoy these experiences.](#)

**Station 5-** Find a meaningful informational text that will deepen students' knowledge of the subject. Make sure to provide scaffolds and make the content accessible to all of your learners.

**Station 6-** Another idea for a station is a coloring station using [Quiver Vision](#). Students can color their own volcano. Once they have completed coloring it, students can view their volcano in augmented reality when they download the Quiver app on their device. Some coloring pages come with enhanced material. [Click here for the volcano coloring sheet.](#)

### **Example B- Project Enrichment**

Another way that I like to use Science Trek 360° is during step 5, which is the demonstration of knowledge. If I am teaching a unit on endangered species, I will still follow the 5 SCIENCE TREK 360° SUCCESS TIPS. However, in this model while students are working on their culminating project, I will pull groups aside to participate in the virtual experiences with me as their guide.

Example: [Endangered Species PBL](#)  
Science Trek 360°- [Endangered Species: ZooBoise Tour](#)