

Science On a Sphere® Student Interactive

Demo: Teacher Instructions



If you would like your students to give an SOS presentation, before you visit Science On a Sphere® ... (no need to print this page)

1. **Print** the student interactive catalog for the theme that works best for your class from the catalog themes:
<http://sos.noaa.gov/Education/interactives.html>
2. **OR** you may choose your own set of datasets for your class in printable format from the data catalog: <http://sos.noaa.gov/Datasets/index.html>
3. **Print** the student presentation Main Points & Questions and Guidelines pages, 1 per group (provided on next pages).
4. Show a few minutes of <http://www.youtube.com/watch?v=JU40wOlh5H0> to get them prepared for the experience.
5. Put the students into groups of 3 or in up to 8 groups (depending on class).
6. Have each group choose one dataset description (of 20) from the student interactive catalog.
7. Have each group prepare a 3-5-minute presentation of the dataset using the instructions sheet as a guideline and the dataset description as a resource. You may want to have other resources available. i.e. Internet access, earth science textbooks, etc. You may want to have the students explain how this dataset shows a concept that you are are working on in class.
8. Send your SOS field trip site a list of your students' datasets in order, make sure you have scheduled enough time for all of the presentations.
9. **SOS Field Trip:** Once they are in the theater, the presenter will show them how to use the Wii remote or iPad to conduct their presentation on the sphere!



Time: 1-2 days in class &
1 day fieldtrip to an SOS site
Age: 6th grade & up
National Science
Teaching Standards:
C (multiple methods of assessment)
D (resources for learning)
Content Standards:
D (earth & space)
E (science & technology)
F (personal & social perspectives)

Science On a Sphere Student Demonstration: Main Points & Questions

Dataset: _____

Theme:

Answer the questions below. Use the *Main Points* to help you structure your presentation.

Main Point 1 – Understanding the visualization

1. What are you looking at?
2. If there are color bars, legends or labels, what do they represent?

Main Point 2 – Explaining the source of your data

3. Who collected the data and how (with what instruments)?
4. What is the purpose for collecting the data?

Main Point 3 – Giving relevance to your dataset

5. Why is this data important?
6. What more can you say about this dataset? (Do some research on the organization who collected the data and the events or phenomena represented in the dataset)

Science On a Sphere Student Demonstration: Guidelines

Dataset: _____

Theme:

Follow the directions below. Put a check in the box once your group has completed the task.

1. Answer the questions on the previous page, understand what is being shown on the dataset, and make sure everyone in the group is able to explain it.

2. Use Internet, a textbook, and any other resources to research the topic, the organization who took the data and the relevance of the data.

3. Assign *Main Topics 1-3* to the members of your group. Choose *one person* who will be learning how to adjust the sphere in the theater during the presentation.

4. Write an outline of your group's presentation together. Then split up each part and use index cards or notebook paper to detail your own Main Topic talking points.

5. Practice giving your presentations to each other. Make your transitions between speakers smooth and quick and know in what order you are presenting. Time your presentation. Is it 3-5 minutes in length? Have you connected the data in the dataset with something you have learned in class?

Science On a Sphere Student Demonstration: Presentations Notes

During the presentations, fill out the table below with the main points of your classmates' datasets. You may want to clarify your answers after returning to class afterwards as there may not be extra time in the theater.

Dataset Name	Dataset description	Data Source	Why data is important
Group 1-			
Group 2-			
Group 3-			
Group 4-			
Group 5-			
Group 6-			
Group 7-			
Group 8 -			