

Exploring Solids and Liquids

WebQuest Description: You will be investigating the 2 types of matter by completing the activities on the WebQuest.

Grade Level: K-2

Curriculum: Science

Keywords: Science, Solids, Liquids, Gases, Matter, Attributes, Properties, Computer

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Introduction

You are about to embark on a solids and liquids journey! You will be completing this journey with a partner. Remember, the definition of matter is anything that takes up space. Matter has three different forms called states. The states of matter are solids, liquids, and gases. On this journey you will be learning about solids and liquids. Since there will be two of you working cooperatively, make sure you focus and stay on task to complete the assignment!

Tasks

You will each take on a role as a solids or liquids expert. You will choose one of the topics and learn as much as you can about them. You will need to know the definition, attributes and examples of your topic. You will then take what you have learned and create a poster that contains that information. Your poster will be divided into two parts, one for the solid and one for the liquid. You must provide 3-5 examples of each state of matter. When you are finished you will show the class your poster and share what you learned. Click on the link below to see what your poster should look like.

Process

Now it is time to start your journey! Step #1 Decide who will become the solid expert and liquid expert of your journey. Each person needs to become an expert in their state of matter and be able to share their knowledge on the poster. Step #2 You should start your research by viewing the PowerPoint below as a review of what a solid and liquid are. Step #3 Your next task is to use the websites below to learn more about solids and liquids. If you are the solids expert, you should only be looking for information about solids and the same for the liquids expert. You should be focusing on everything you need to know about liquids. As you look at these websites try to think about the answers to the following questions: What is a solid? What is a liquid? What are some attributes of a solid and a liquid? What are some examples of a solid and a liquid? Use the sheet provided to write down the definitions of both states of matter and write down examples of each. (Solids and Liquids) Website #1 (Solids and Liquids) Website #2 (Solids and Liquids) Website #3 Step #4 Design a poster informing us what a solid and liquid are, including some attributes of each and provide at least 3 examples of a solid and liquid. Your poster will be divided up into 2 parts (solid and liquid) Each expert will be responsible for contributing what they learned on their poster. You will use various art supplies, magazines and clip-art to design your poster. Step #5 Now it is time to present your poster to the class. You and your partner will work together to tell us what you found by explaining your poster to us. In your presentation you will need to tell us what is a solid and a liquid and give us at least 3 examples of solids and liquids. Remember to speak clearly and loud and work together!

Evaluation

Category and Score	Needs Improvement	Inconsistent	Satisfactory	Outstanding	Score
Definition of a solid and liquid.	Students did not include the definition either state of matter.	Students only included 1 of the states of matter.	Students gave a basic definition of the states of matter.	Students gave very detailed definitions of the states of matter.2	25%
At least 3 examples of each state of matter.	Student did not include correct pictures of the states of matter or are missing them on their poster.	Students only have 2 or less examples of each of the states of matter.	Students included 3 examples of each of the states of matter.	Students included more than 3 examples of each of the states of matter.	25%
Presentation of Poster.	Students did not know the information they were presenting.	Only 1 student did the speaking in the presentation.	Both students participated and read the information using their poster.	Both students gave us information about the states of matter besides what is on their poster.	25%

Category and Score	Needs Improvement	Inconsistent	Satisfactory	Outstanding	Score
Work Habits during the WebQuest.	Students did not work well together and their work is sloppy.	One student did all the work in the project and parts of the project is sloppy.	Both students did their equal share in creating the poster. The poster shows just basic information.	Both students work well together. Their poster is very eye catching and neatly done.	25%
				Total Score	100%

Conclusion

CONGRATULATIONS! You are almost finished with your journey! You worked very hard on your poster and now you know some more information about solids and liquids. Now let's have some more fun! Click on the links below to play some solids and liquids games to practice what you learned about them. [Game #1](#) [Game #2](#)

Teacher Page

This WebQuest focuses on 2 states of matter: solid and liquid. The objective of this WebQuest is to help students learn about the properties of solids and liquids. The lesson will have students produce a poster displaying their information of the 2 states of matter, including the definition and examples of each state of matter. I would recommend that this WebQuest be used as an introduction to your unit on the Smithsonian Grade 1 Solids and Liquids unit. This will be a launch to the unit and provide students with the necessary information needed for future class discussions. Students will identify 2 states of matter: solid and liquid and use the internet to find the necessary information for their poster. I would recommend 4 days (45 minutes each) to complete this WebQuest. You would need 1 computer for every 2 students in order for them to access the information. Some of the resources are ones that were created by me, but I would like to give credit to the external weblinks in this WebQuest. Without their hard work, this WebQuest would not be possible.

Standards

Credits

Other