

shape-o-mania

WebQuest Description: We become what we be hold.We shape our tools and thereafter our tools shape us.LET'S EXPLORE THESE SHAPES.....

Grade Level: 3-5

Curriculum: Math

Keywords: cube, cuboid, sphere, cone , cylinder ,prism,square , rectangle etc.

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Introduction

Students will find shapes in their environment, conducting research and analysis on how 3-D shapes are correlated with daily life which will enable them to enjoy the fact that the world is full of shapes.Their observational and analytic skills will be enhanced after the project.

Tasks

Formation of 2-D and 3-D shapes using Jodo Straws; Observe shapes in your surrounding and classify according to their properties. Visualization of nets of cube and cuboid through hands on activity; Prepare your own quiz based on 3-D shapes and their nets. Conduct quiz in class. Design your dream house/Robot using different Solid shapes.

Process

Day 1: Teacher will introduce lesson to children by showing a PPT on shapes and will test the previous knowledge of students with questionnaire. Day 2: Teacher will give instructions to students to form groups. Students will watch a video on computer. Day 3: Activity 1 - Students will be asked to observe the different shapes around them and then to classify these shapes according to their properties. Present observations a collage. Students will form shapes using Jodo Straws. Day 4: Activity 2 - Students will visualize net of solid shapes with the help of old tooth paste boxes, empty cubical boxes of toys, birthday cap, empty aluminum foil rolls etc. and will prepare their own quiz (on 3 D- shapes and their nets) to be conducted in class. Teacher can show 3 D - nets with paper cutting in class. Day 5: Activity 3 - Students will design their own dream house / robot using shapes 2-D and 3-D shapes. Day 6: Students will present their own dream house / robot in class. Day 7: Activity 4 - Students will conduct the quiz in class. Day 8: Students will discuss and submit the project in class. FOLDER DETAILS: Each group will submit one folder
 Page 1: Index
 Page 2: Log (Day wise work)
 Page 3: Topic introduction
 Page 4: Collage of activity 1
 Page 5: activity 2
 Page 6: Pictures /photos of activity 3
 Page 7: Questionnaire of Quiz. Page 8: Pictures /photos of activity with Jodo Straws. Page 9: Learning outcome and conclusion (by group leader)

Students can use their own creativity in making folder.

Evaluation

Based on your performance in answering questions correctly, will determine your learning and how much you have grasped from the project of 2-D and 3-D shapes.

Category and Score	2 Beginning	3 Developing	4 Very Good	5 Exemplary	Score
Participation	Rarely provides useful ideas or suggestions on project or class discussion.	Sometimes provides useful ideas when participating in class discussion	Usually provides useful ideas when participating. .	Provides useful ideas that will enhance learning by participating through discussion and research.	5

Category and Score	2 Beginning	3 Developing	4 Very Good	5 Exemplary	Score
Team Work	The final product is not the result of a collaborative effort. The group showed no evidence of collaboration.	The team had problems working together. Little collaboration occurred.	The team worked well together, but could have utilized each other's skills to a better degree in completing the final product.	It is evident that a mutual effort and a cohesive unit created the final product.	5
Quality of Work	Often provides work that needs to be redone or edited.	Sometimes provides sufficient work that may need to be completed	Usually provides work that is sufficient and complete.	Provides useful work to their ability and effort.	5
Understanding of the concept- shape	Did not really understand the concept.	Shows effort and tries to understand the concept.	Understand the concept but a little unclear.	Understand the concept very well.	5
				Total Score	20

Conclusion

O - WOW, Congratulations, You have done it. you have explored mathematics using shapes. you got an opportunity to observe your environment and identify different shapes seen in your surrounding. You performed different types of hands-on activities in your peer groups, which gave you opportunity to build team spirit . So now, when you move around in your environment remain aware for all the shapes you have learned about.

Teacher Page

 This webquest is prepared for 5th standard. It will help to teach 3 D - shapes and its nets by using enjoyable video demonstrations, activities, puzzles and fun games. It will help students to learn in an interactive fun way. It will enable teachers to observe students more closely and identify their strengths and weakness.It would take about 7-8 days to complete this web quest in the classroom.

Standards

Credits

Other

We hope this project and activities on '2-D and 3-D shapes' will enhance learning process of students.