

Essential Question: How does geometry affect our everyday life? How do we use different geometric shapes?

Lesson Plan:

1. With partners, have students brainstorm as many shapes as they can.
2. Once all have been brainstormed, categorize shapes using Venn Diagrams, T-charts, and other organizers by the number of faces, number of vertices, bases, angles, etc.
3. What are these shapes used for in the real world? (Cylinder = cans, legs of chair, etc.) Look at pictures of content area and determine polygons and solids in the pictures. (Display on Smart Board for easier viewing.)



**Inside sod house**, Paul Starrs, Interior, South Dakota (1986)

4. Students will develop a poster of bulletin board using polygons and solids to show setting of story, how pioneers lived, Renaissance era, etc. Students will tally what shapes have been used. When the poster/bulletin board is completed, students will indicate in a journal which polygons/solids were used for what furniture piece.

Additional resources:

- <http://www.wowmuseum.org/exhibits/sod/daily.html>
- [http://memory.loc.gov/cgi-bin/query/D?ngp:2:./temp/~ammem\\_R2oA::](http://memory.loc.gov/cgi-bin/query/D?ngp:2:./temp/~ammem_R2oA::)
- <http://geoimages.berkeley.edu/GeoImages/Starrs/SODHOUSE.html>