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Resources used are from website by Vicki Blackwell.

Grade Level/Subject: 2<sup>nd</sup> Grade Math – Geometry Shapes

Topic: Johnny Appleseed Origami – Use in Johnny Appleseed Unit before Sept. 29<sup>th</sup>.

Objectives: Geometry and Measurement- The student will use geometry properties and relationships to recognize and describe shapes and use appropriate units of measure in a variety of situations.

1. Geometric Properties and Relationships
  - a. Sort and classify symmetric and congruent figures

Instruction

1. Introduction: Read Johnny Appleseed book. There are various versions available in book form or on the internet.
2. Materials needed: Sturdy construction paper or cover stock. Face, apples, hands and shoes or feet copied from web site or draw your own.

<http://www.vickiblackwell.com/johnny.html>

3. Instructional process: After reading Johnny Appleseed story. Introduce or review math vocabulary.
  - a. Symmetry
  - b. Congruent
  - c. Polygon
  - d. Square
  - e. Triangle

Follow the folding instructions to create Johnny Appleseed's body. This is an easy folding project. As you fold, point out different shapes caused from the folding. Start with Square. Other vocabulary used is half, middle, center, fold and point.

Attach face/hands, apple and shoes.

Fill pocket with vocabulary words with definitions, math facts or more apples cut out of construction paper.

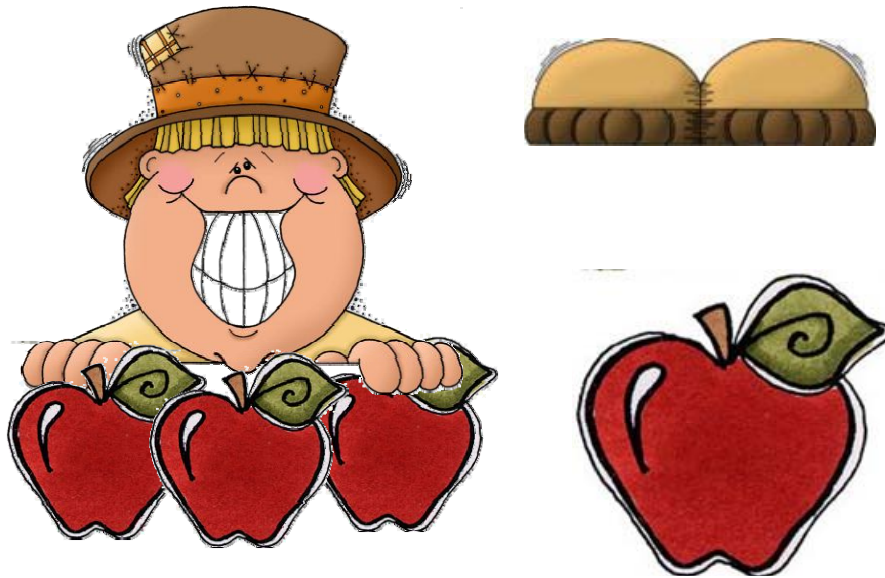
4. Closure: Review math vocabulary.

Assessment: Visual assessment on following folding instructions. As the teacher monitors the activity they can ask the students to identify the shapes, mark assessment on a check sheet.

Modifications/Accommodations: Lower level learners will need some assistance with the folding and cutting activities. Higher level learners can keep a tally chart of how many of each shapes are created.

Reflection: The students not familiar with origami will need extra time and help when folding and cutting. Visually check to see that each student is folding in the correct place and direction. Remind them that the fold lines need to be really creased. Teachers need to check folds.

## Origami Activity for Johnny Appleseed



A printable copy of the face – hands, apples and shoes are available on her web site or better yet draw your own with construction paper and markers. Once you've made his body, cut out Johnny's head and paste on the point of the body. Now cut out shoes and glue them to the end of the legs then trim points off. You can also design and draw Johnny Appleseed's head using KidPix or the Paint Program on your computer. Fill his pouch with apples with vocabulary words, math facts, etc.

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**Johnny Appleseed origami project** - Use a perfect square of paper to make Johnny Appleseed's body. It's best to use either construction paper or cover stock to make the body sturdy enough to stand up and hold something. Follow the folding and cutting directions below.

