

Shapes in the Blackfeet Language

Fast Facts

Curriculum Area: Mathematics

Grade Level: Kindergarten

Suggested Duration: 60 minutes

Stage 1 Desired Results

Established Goals

Montana Content Standards for Mathematics

Geometry Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres) geometrically. Grade 1. Identify and describe shapes from a variety of cultural contexts, including those of Montana American Indians, by building shapes from components (e.g., sticks, yarn, and drawing shapes).

Indian Education for All Essential Understandings Regarding Montanians

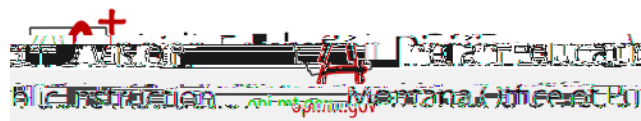
Essential Understandings There is great diversity among the 12 tribal Nations of Montana in their languages, cultures, histories, and governments. Each Nation has a distinct and unique cultural heritage

Understandings

- x The rectangle, circle, square, triangle and rhombus can be given two names, one in the Blackfeet (Pikuni) language and one in English.
- x The Blackfeet language is unique to Pikuni and different from all other tribes

Essential Questions

- x How are these shapes the same?
- x How are these shapes different?
- x How many sides do the shapes have?
- x How many corners do the shapes have?
- x How do we say these shapes in English?
- x How do we say these shapes in Blackfeet (Pikuni)?



Shapes in the Blackfeet Language Kindergarten

Students will be able to...

- x say and identify the shapes in English.
- x say and identify the shapes in the Blackfeet (Pikuni) language.
- x make the shapes on the geoboard with rubber bands.

Students will know...

- x how the shapes look and be able to identify them.
- x how to say the shapes in English and in Blackfeet (Pikuni).
- x how to make the shapes on a geoboard as well as the circle on the back of the geoboard.
- x Blackfeet (Pikuni) is one of many Native American languages.

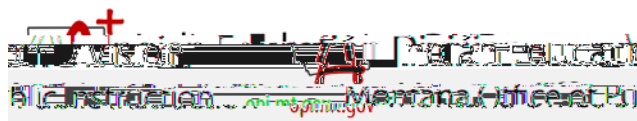
Stage 2 Assessment Evidence

Performance Tasks

1. Student will practice and recite the shapes in English and Blackfeet. They will practice forming them on a geoboard and by using the circle on the back of the geoboard.

Other Evidence

1. Students will participate in identifying and saying the names of the shapes in English and Blackfeet (Pikuni).
2. Teacher will observe the students making the shapes on the geoboard and saying the shapes in English and Blackfeet (Pikuni). (e)1.7 (n)



Shapes in the Blackfoot Language Kindergarten

The teacher can go over these shapes in English and the Blackfeet (Pikuni) language every day during math or calendar. This activity can be a math center with the pictures.

Materials/Resources Needed

- x Pattern Blocks printable [templates](#) if you do not have pattern blocks.
- x Attribute blocks
- x Pictures of each shape in English and Blackfeet (Pikuni)
- x Geoboards- If not available, the teacher can use string, straws, clay and other object for students to form the shapes. Link to an [online version of geoboards](#) is appropriate.
- x Rubber bands for the Geoboards.

Shapes in Blackfeet, With Phonetic Pronunciation (Calvin Weatherwax)

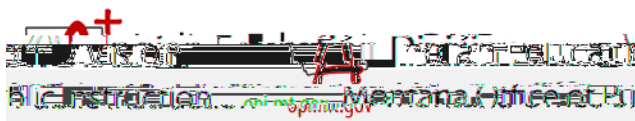
- | | | |
|--------------|-------------------------|--------------------------|
| x Rectangle: | Is-i-nap-innoyi | Is-e-nap-in-no-yee |
| x Triangle: | No-toy-ii | No-to-yee |
| x Square: | A-tak-saakssin | Ah-duc-sucsin |
| x Circle: | O'taki | OOhtah-kee |
| x Rhombus: | Il-taa-wa-ko-mo-tsi-iop | Etah-wah-ko-mo-tsee-yiop |

Contact Information on pronunciation of the Blackfeet shape words: Browning Public School district # 9 Native American Studies (406) 338115 or Blackfeet Community College Native American Studies (406) 3385441.

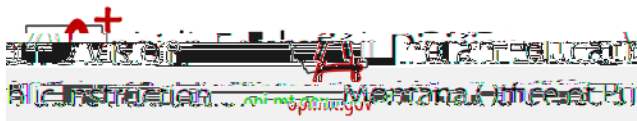
[Montana Content Standards and IEFA Essential Understandings Regarding Montana Indians](#)

[Montana Content Standards for Mathematics Kindergarten](#)

[Essential Understandings Regarding Montana Indians](#)



Shapes in the Blackfeet Language Kindergarten



O'taki
(OOhtah-kee)
C



