



We're retiring teacher-created lesson plans in September 2021. Please save copies for your records.
Common Sense digital citizenship lessons are here to stay.

TEACHER-CREATED LESSON PLAN

Polygon Party Time!

Students will demonstrate an understanding about the different types of polygons.



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SUBJECTS

Math

OBJECTIVES

Students will be able to...

GRADES

2 – 3

define and identify types of polygons.

plan a party with a polygon theme.

work collaboratively in groups.

1 HOOK



OFF-SITE RESOURCE
The Polygon Song -
YouTube



OFF-SITE RESOURCE
Learn Shapes and
Carve Pumpkins with
Shawn the Train - Fun
Cartoon for Kids -
YouTube

Explain that **polygon** is just a fancy word meaning a shape with three or more straight

sides and angles.

Write the word "polygon" and its definition on the board, and have students copy this on their paper.

Create a t-chart on the board underneath the definition. On one side write "examples." On the other side write "non-examples." Students should recreate this on their paper.

Draw a picture of a square on the "examples" side. Explain that this is a polygon because it is a closed shape with four sides and four angles.

Draw a picture of a circle on the "non-examples" side. Explain that although it is a closed shape, this is not a polygon because it does not have straight sides or angles.

Draw a picture of a shape that is not closed on the "non-examples" side. Explain that although it has angles and straight sides, this is not a polygon because it is not closed.

Give students a few minutes to work with a partner and continue drawing examples and non-examples of polygons.

Have some students come to the board to share their examples and non-examples.

STUDENT INSTRUCTIONS

You and your friends are having a party! You will invite lots of guest. A good party needs a theme. Your theme will be POLYGONS.

Use polygons for all of your plans, from food to games.

2 DIRECT INSTRUCTION



Activity:
Exploring

Explain that there are many different types of polygons.

Draw a three-columned chart on the board with the titles "triangle," "quadrilateral," and "pentagon." Have students copy this on their paper.

Acknowledge that many students know what a triangle is. Draw a triangle on the board and have students copy it.

Circle the root word "tri" in the word "triangle" and have students do the same. Ask students what other words start with "tri"? Possible answers include tricycle, triplets, tripod, and triathlon.

Write these in the "triangle" column and have students do the same. Ask students what they think "tri" means.

See if students can come up with "three." Point out how each of the examples has something to do with the number three.

Repeat the process for quadrilateral and pentagon. Make sure to clarify the meaning of any new words with students.

3 GUIDED PRACTICE



OFF-SITE RESOURCE
<http://shareranks.com/favorite-sandwiches>



OFF-SITE RESOURCE
Favorite Sandwiches For Kids



OFF-SITE RESOURCE
Beautiful Handmade Party Invitations



OFF-SITE RESOURCE
<http://questgarden.com>



OFF-SITE RESOURCE
Folding origami models



OFF-SITE RESOURCE
Folding origami models



OFF-SITE RESOURCE
eGames — RoboPacker (Grade 2)

Tell students that they will now begin a scavenger hunt for triangles, quadrilaterals, pentagons and a web quest in the classroom using computers in groups.

Model for students how to do this by finding an object around the classroom for each of these polygons. Write the objects under the appropriate heading of your chart.

Allow students to work in groups to begin to plan their 'Polygon Party.' Explain that each job has been given a special set of directions and web links. These directions apply to all of the jobs. Please see your special job directions and questions below.

- Food Planner
- Invitation Artist
- Game Planner
- Art Director
- Table set up

STUDENT INSTRUCTIONS

Click on the following links for each area to plan for the party.

Food Planner:

One of your jobs as the food planner is to plan food for the party. You want to serve 4 kinds of sandwiches. Click on the links below.

Invitation Artist

Your job is to invite your friends! Use the links below to help you make an invitation to send to your guests.

1. Include the party theme (Polygons)
2. Make up a day, time, and place and put these on your invitation.
3. Include at least 10 different polygons on your invitation.
4. When you finish, print your invitation.

Table set up

Your job is to plan how to put the tables to seat the 20 people at the party. You need room for exactly 20 people to sit. You have 4 square tables and 4 triangle tables. You will put them so there is a place for every person. There cannot be any empty places.

Art Director

Part of the Polygon Party will be Art Time.

Game Planner

Games can be computer games, card games, or other kinds of games.

4 INDEPENDENT PRACTICE



OFF-SITE RESOURCE

[https://www.ixl.com/m
3/is-it-a-polygon](https://www.ixl.com/math/is-it-a-polygon)

Instruct student to complete IXL Questions.

STUDENT INSTRUCTIONS

Do IXL questions.

5 WRAP-UP



Activity:

Conversing

Have students turn and talk with the person next to them about what makes a polygon a polygon, and review this definition as a class.
