SCENARIO		
Title	Drawing polygons.	
Summary	The student will be able to recognize and name polygons. Familiar with the statements about the sum of the polygon's internal angles. Learn to draw these polygons.	
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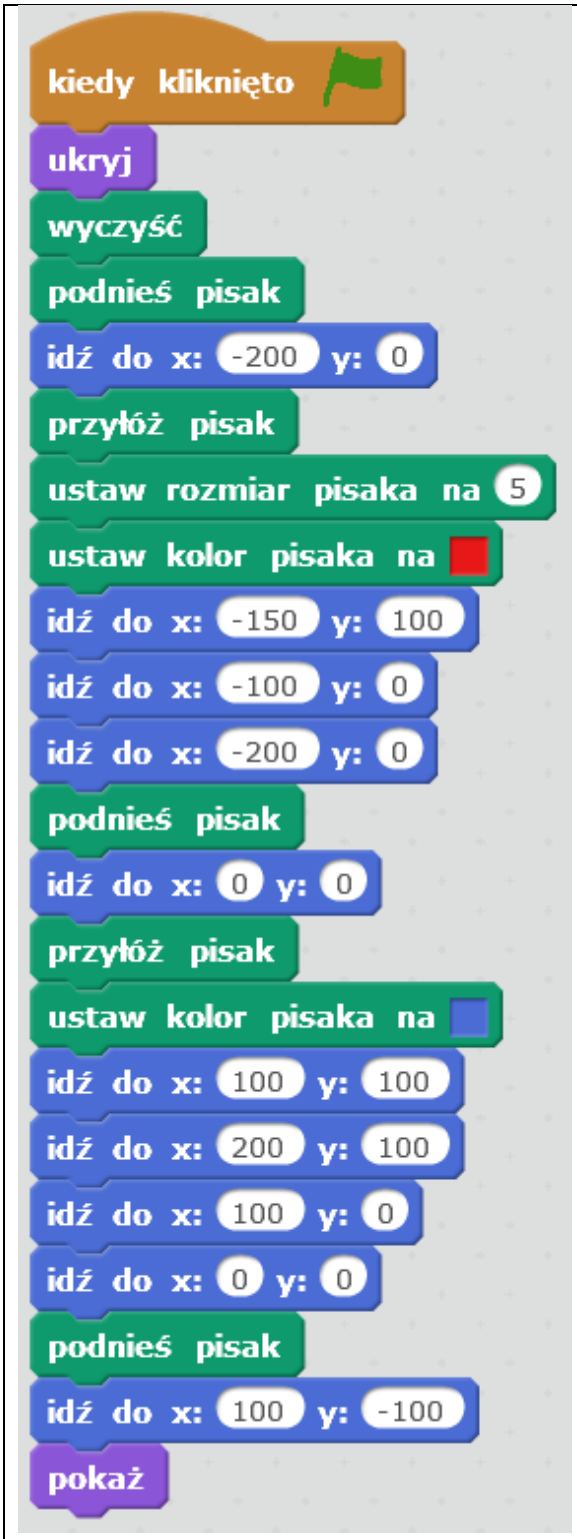
Didactic objectives
Lesson aims Student: names and draws polygons with the given name; indicates and counts diagonals in a polygon; applies the theorem of the sum of the angles of a triangle; uses the knowledge of the sum of angles in a quadrangle in tasks; solves tasks using polygon properties; understands and interprets relevant mathematical concepts, knows the basic terminology; reads and understands simple text containing numerical information. distinguishes between figures circle and circle; uses a compass - draws circles and circles; distinguishes in the circle and circle the center, radius, diameter and chord; applies the relationship between the radius and diameter of the circle and the circle; uses circle and circle messages in tasks.
Physics☐ Mathematics☒ Information☐ Technology☐ Robotics☐ Programming☐
Education Level: 10-12years☒ 12-14years☐
Problem Statement
What characterizes a polygon? What polygon is a regular polygon? What is the wheel? What is the difference between a polygon and a circle?
BOM (Bill Of Materials needed)
Computer workstations, scratch software
Activity description
1. Organizational activities 2. Reminder of shapes of various geometric figures. 3. We introduce new important concepts: the internal angle of the polygon, names of polygons and their diagonals, the sum of measures of the internal angles of the triangle and quadrangle. 4. Calculation of the internal angle measure of a regular polygon. 5. Work with the scratch program

6. Summary

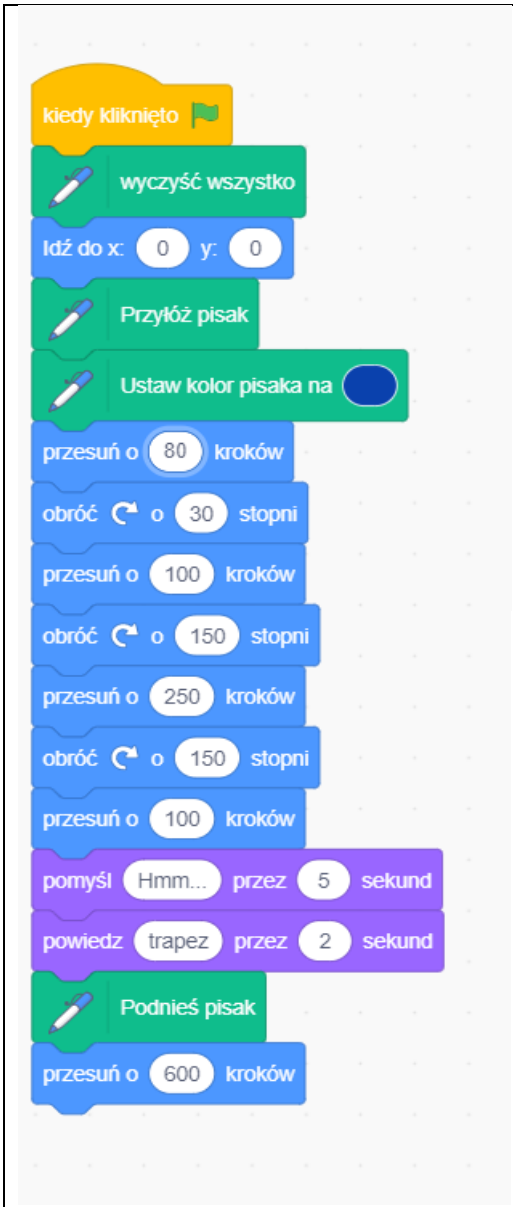
Sample script and the appearance of the scene

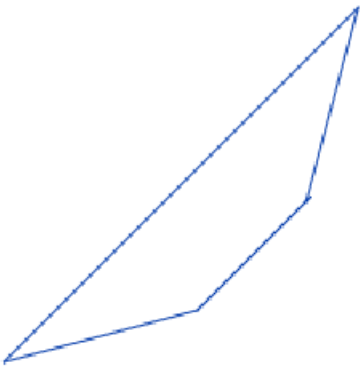
Script for a polygon

Or

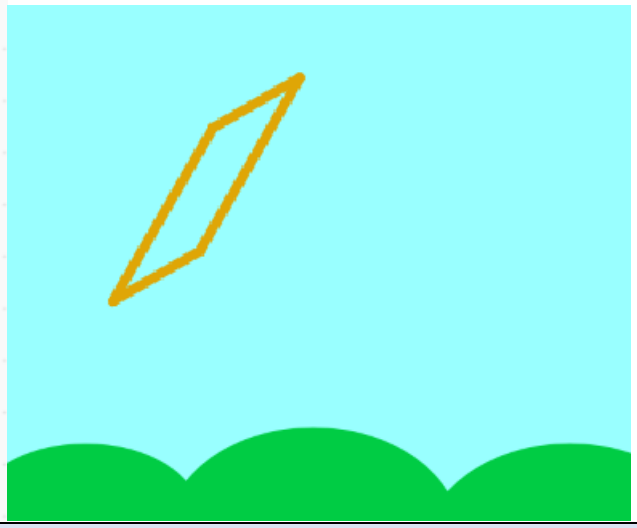

kiedy kliknięto
ukryj
wyczyść
podnieś pisak
idź do x: -200 y: 0
przyłóż pisak
ustaw rozmiar pisaka na 5
ustaw kolor pisaka na
idź do x: -150 y: 100
idź do x: -100 y: 0
idź do x: -200 y: 0
podnieś pisak
idź do x: 0 y: 0
przyłóż pisak
ustaw kolor pisaka na
idź do x: 100 y: 100
idź do x: 200 y: 100
idź do x: 100 y: 0
idź do x: 0 y: 0
podnieś pisak
idź do x: 100 y: -100
pokaż

Or


kiedy kliknięto
wyczyść wszystko
Idź do x: 0 y: 0
Przyłóż pisak
Ustaw kolor pisaka na
przesuń o 80 kroków
obróć o 30 stopni
przesuń o 100 kroków
obróć o 150 stopni
przesuń o 250 kroków
obróć o 150 stopni
przesuń o 100 kroków
pomyśl Hmm... przez 5 sekund
powiedz trapez przez 2 sekund
Podnieś pisak
przesuń o 600 kroków



Or



Resources
Drawings of polygons, circles, charts dividing the polygon into triangles.
Students' Evaluation
Commitment, correct, executing commands, activity
Bibliography
Available mathematics school textbooks, workbooks, task sets. Just those with whom the class works.
Scalability
Increasing the number of sides in a polygon,
More information

Drawing wheels.