

Bachelor of Education (Elementary) & Bachelor of Education (Secondary) STEM Lesson Plan

Lesson Title: Name Angle Part 3

Lesson # 7

Date: January 11, 2022

Name: Hannah Parker

Subject: Math

Grade(s) 6

Rationale:

This lesson is important because it is allowing students to connect their angle measurement and classification to a fun real-life situation. This assignment is a formative assessment that showcases students' learning in a project-based way.

Core Competencies:

Communication	Thinking	Personal & Social
	Critical Thinking	Social Awareness + Responsibility

Big Ideas (Understand)

Properties of objects and shapes can be described, measured, and compared using volume, area, perimeter, and angles.

Learning Standards

(DO)	(KNOW)
Learning Standards - Curricular Competencies <i>Communicating and Representing</i> <ul style="list-style-type: none">Explain and justify mathematical ideas and decisions	Learning Standards - Content <ul style="list-style-type: none">angle measurement and classification

Instructional Objectives & Assessment

Instructional Objectives (students will be able to...)	Assessment
<ul style="list-style-type: none">Students will be able to measure angles in their names by using their protractors.	<ul style="list-style-type: none">Pre-Assessment: Property of Angles Warmup (Observation)Summative Assessment: Name Angle Project (Rubric)

Prerequisite Concepts and Skills:

Students know how to classify lines and angles
Students know how to measure different types of angles using a protractor

Indigenous Connections/ First Peoples Principles of Learning:

Learning is holistic, reflexive, reflective, experiential, and relational (focused on connectedness, on reciprocal relationships, and a sense of place).
Students will be learning about angles and how to measure them in an experiential way, using physical protractors to measure. This could be related to indigenous knowledge and how they measured certain things in their environments.

Universal Design for Learning (UDL):

1. MULTIPLE MEANS OF REPRESENTATION – I provide for multiple means of representation in this unit in the following ways:

- Visual Representation: questions/challenges and assignments in visual format
- Representation: questions are orally asked and explained
- Demonstrations are shown and orally explained

2. MULTIPLE MEANS OF ACTION AND EXPRESSION – I provide multiple means of action and expression in this unit in the following ways:

- Warmup whiteboard activity
- Name Angle Assignment
- Class Discussion

3. MULTIPLE MEANS OF ENGAGEMENT – I provide multiple means of engagement in this unit in the following ways:

- Whole Class Discussion
- Group Discussion
- Individual worktime

Differentiate Instruction (DI):

Behavioral Diversability

- Provide wobble chairs for focus
- Provide encouragement to keep these students on task.
- Have scaffolds and instruction sheets to keep students on task and to go back to.
- Move students if distracted (preferential seating)
- Have brain-breaks and pauses during readings to bring students back

Materials and Resources

Smartboard
 30 Protractors
 30 Pieces of Paper
 Name Angle Assignment (on Google Classroom)
 Name Angle Sample

Lesson Activities:

Teacher Activities	Student Activities	Time
Introduction (anticipatory set – “HOOK”): Learning Target: I can identify and measure different types of angles <u>Angle Properties Warmup</u> -Call out properties of angles -Have students write on their whiteboards what angle they think it is -Have students turn it around	Students write down their angle type on their whiteboard Students turn their whiteboards around	5 min
Body: <u>Name Angle Assignment</u> -Handout protractors -Have students go to google classroom for success criteria and sample -Have students work on their angles (measuring, labeling)	Students grab their chrome books Students grab their name assignment out Students label and measure their angles in their names	35 min
Closure:		5 min

<u>Revisit Success Criteria</u> -Have students turn to their success criteria -Check off what they have done -Reflection: What do I feel proud of? What am I doing well? What am I struggling with?	Students open their chrome books Students check off what they have completed Students do a silent reflection.	
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Organizational Strategies:

3,2,1 Stop and Listen
 Explain instructions before activities
 Demonstrate how to use protractor again
 Go over the types of angles again
 Walk around the classroom to check on students' progress

Proactive, Positive Classroom Learning Environment Strategies:

Greet students as they come into the classroom
 Call on the students by name
 Praise students who are on task and encourage students who are not on task
 Re-iterate instructions multiple times
 Have students sit by classmates that won't distract them
 Distraction board- if needed add students and they owe time at lunch.

Extensions:

Have students start adding their reflex, revolution, and straight angles

Reflections (if necessary, continue on separate sheet):

N/A

Appendix: Name Angle Assignment

Name Angle

Target: I can identify and measure different types of angles

Success Criteria

- Write your name (make it artistic using only straight lines)
- Use letters to help identify where each angle is located.
 * *Remember the vertex of the angle is the middle letter*
- Identify and label 1 set of parallel lines and 1 set of perpendicular lines
 * *If these do not appear in your name, you can add a detail to demonstrate the concept*
- Identify and label 2 obtuse angles, 2 acute angles, and 2 right angles
- Identify and label 1 reflex angle, 1 revolution angle, 1 straight angle
- Measure each labeled angle using your protractor
- Create a key to help identify where each angle is (see sample)

Scale	Emerging	Developing	Proficient	Extending
Right Angle			I can label and measure two right angles	
Acute Angle			I can label and measure two acute angles	
Obtuse Angle			I can label and measure two obtuse angles	
Reflex Angle			I can label 1 reflex angle and explain how I measured it	
Revolution Angle			I can label 1 revolution angle	
Straight Angle			I can label 1 straight angle	
Lines			I can identify and label parallel and perpendicular lines	

Sample Work

