Introduction

Student Teacher _____ Cooperating Teacher _____ School _____

<u>Angela Bruhn</u> <u>Nick Restau</u> Milford Jr./Sr. High School

Context of Teaching

My teacher work sample will be as I work with my 8th graders in the subject of Pre-Algebra. We will be covering the last part of my Geometry unit. We will begin this unit after taking a quiz over the beginning portion of the chapter. I have a couple of students, who are "slower" learners. They are bright kids; they just take longer to grasp certain concepts. I have complete leeway in creating my unit. My co-operating teacher has granted me permission to create and explore different options in creating my unit. He will be monitoring me as I go and will okay my material before I present it as well.

A brief overlay of what we will be covering: Day 1- Angles and Polygons, Day 2-Area of Certain Polygons, Day 3- Area and Circumference of a Circle, Day 4- Scavenger Hunt, and Day 5- Test.

Understanding by Design Stage One

Stage 1 – Identify Desired Results

Established Goals:

Students will have an understanding of relationships among the angles, side lengths, perimeters, and areas of similar objects.

http://www.nctm.org/standards/content.aspx?id=314

What understandings are desired?

Students will understand that...

Overarching:

- polygons have different representations in our world.

Topical:

- the sum of the angle measures in any polygon can be found and

applied to similar polygons.

- the area of polygons and circles can transfer to real-world applications.

What essential questions will be considered?

Overarching:

- In what ways are polygons represented in our world?

Topical:

- How can we find the angle measures in any polygon?
- How can we apply the angle measures of a polygon to similar polygons?
- In what ways do we see the area of polygons and circles transfer to real-world applications?

What key knowledge and skills will students acquire as a result of this unit? Students will know. . .

- the equation to find the sum of angle measures of a polygon.
- the formulas to find the area of a triangle, trapezoid, and a parallelogram.
- The equations to find the area and circumference of a circle.
- the following key terms: regular polygon, irregular polygon, area, circumference, chord, radius, and diameter.

Students will be able to. . .

- find the sum of angle measures of a polygon.
- solve for missing angle measures of a polygon.
- calculate the area of a triangle, trapezoid, and a parallelogram.
- compute the circumference and area of a circle.

Pre-Assessment

The pre-assessment practice that I used follows here. Each student was to fill out the sheet in order to show me what they knew and also what they didn't know as well.

Are the following polygons regular or irregular,,



Classify each polygon by the number of its sides...



Find the area of this triangle...



Find the area and circumference of this circle...

9.



Pre-Assessment Rubric

Teacher Name: Ms. Angela Bruhn

Student Name:

CATEGORY	3	2	1
Able to determine polygons as regular or irregular	Student have a clear understanding of what a regular and an irregular polygon is.	Student appear to have an idea of regular and irregular polygons.	Student appear to not have a grasp on the idea of regular and irregular polygons.
Classifying Polygons by the number of sides	Student knows the specific names for all of the given polygons and are able to classify them by their sides.	Student is able to classify about half of the given polygons by their sides.	Student is unable to classify polygons by the number of sides.
Finding area of polygons (Specifically a triangle)	Student demonstrates the knowledge of the equation to use to find the area of the triangle and is able to calculate the area.	Student demonstrates an idea of what equation to use to find the area of a triangle.	Student is unable to demonstrate the equation to use for the area of a triangle and is unable to find the area.
Finding the circumference and area of a circle.	Student is able to find the area and circumference of the given circle.	Student is able to find or demonstrate understanding for either the area or the circumference of a circle.	Student is unable to demonstrate an understanding of finding the area or circumference of a circle.



In the above chart we see that the majority of students knew the difference between regular and irregular polygons. Most were also able to classify polygons and assign them their appropriate name. The thing we struggled with the most is finding the area of a triangle and the area and circumference of a circle.

This information gives me a great base to build upon. The students have a solid understanding of what a polygon is and even if certain students were unable to give them all a particular classification, they still were able to show a slight understanding of the classification each polygon has.

In light of the pre-assessment results, I realized that we were going to have to give a vast majority of our attention to finding area of different polygons and circles. Since the majority of my students have an understanding of polygons and their classifications, a great deal of that information will be review and reestablishing prior knowledge.

Understanding by Design Stage Two

Stage 2 – Determine Acceptable Evidence

What evidence will show that students understand?

Performance Tasks* (summary in GRASPS form):

G: Students will be able to successfully determine the answers to a score of mathematical problems that will be given in a scavenger hunt format.

R: The students themselves will either be a scribe, a checker, or a scout within their groups.

A: The target audience is their group members and I.

S: For the entire period the students will be working in groups of 3. They will find themselves playing one of the roles above and will be going through a series of problems throughout their scavenger hunt.

P: Students will be making their way through a series of 30 mathematical problems that all have to do with our geometry unit. They will be working in groups of three. They will all be given a starting position and once they are done answering that question, they will then move to the next problem that is indicated on the same card.

S: The standards are included in the rubric that can be found under postassessment.

Other Evidence (quizzes, tests, prompts, observations, dialogues, work samples):

Along with the scavenger hunt, we had two separate homework assignments as well as a test.

Homework for 7.5-7.6 was in several different colors. The student's worked on the problems individually during the class period and when they were done they had to pair up with the student who had the same color of sheet to compare and talk about their answers.











Student Self-Assessment and Reflection:

1. Did you feel that the Scavenger Hunt (Review Activity) was helpful to you in reviewing for the test?

2. How would you describe your comfort level with the material that we covered in chapter 7?

3. How might I improve the unit to benefit your learning?

4. Did you enjoy this geometry unit?

Post-Assessment

Scavenger Hunt

Today's activity is a sort of "scavenger hunt". I will put you in groups of about 3 people. The following points are the directions for each group. If you have questions please feel free to ask!

- Each person will have a "job"
 - The scout (Finds the next problem for the group)
 - The scribe (Writes the problem number and it's answer)
 - The checker (Checks the scribe and makes sure that the group has the right answer)
- Each card will have your next destination. The scout is to find where the next problem is. Make sure you are following the cards directions and you are going to the right card next.
- You will start at the following number:

Make sure you get to as many cards as you can within the period. I will know if you are going in order or not by the number list. You should end up at the card you began with.

Please DO NOT write on the cards!

Scavenger Hunt

Teacher Name: Ms. Bruhn

Student Name:

CATEGORY	4	3	2	1
Amount of	All 30 problems	At least 24	At least 18	Less than 18
problems	were attempted.	problems were	problems were	problems were
attempted		attempted	attempted	attempted.
Solutions are	At least 24	At least 20	At least 15	Less than 15
accurate	problems were	problems were	problems were	problems were
	accurate.	accurate.	accurate.	accurate.
Active Participation	Student was	Student was	Student was	Student was more
	actively	actively	participating	of a distraction to
	participating the	participating about	randomly, but not	the process then a
	whole class period.	75% of the time.	often.	help.
Use of Class Time	Used time well	Used time well	Used some of the	Did not use class
	during the class	during the class	time well during	time to focus on
	period. Focused on	period. Usually	the class period.	the scavenger hunt
	getting to the end.	focused on getting	There was some	OR often
	Never distracted	to the end of the	focus on getting to	distracted others.
	others.	scavenger hunt	the end of the	
		and never	scavenger hunt	
		distracted others.	done but	
			occasionally	
			distracted others.	

Lesson Plans

Day One:

Student Teacher: Angela Bruhn

Grade Level: 8th Grade

Date: 2/19/2013

State Standard: In grades 6–8, all students should precisely describe, classify, and understand relationships among types of two- and three-dimensional objects using their defining properties.

Subject: Pre-Algebra Name of Lesson: Angles and Polygons

Period / Time: 6th 47 minutes

I. Goal: When given an irregular or regular polygon students will be able to find the sum of the interior angle measures.	Required Adaptations/Modifications:
 II. Objectives: When given a polygon, students will be able to calculate the total sum of the measures of the interior angles. When given a regular polygon, students will be able to determine the value of each individual interior angle. When there is only one missing angle measure, students will be able to develop an equation and determine the missing angle's value. 	Required Adaptations/Modifications:
III: Faith / Values Integration:	Required Adaptations/Modifications:
IV. Integrated Technology: We will be using the overhead projector to project the keynote presentation for the lesson.	Required Adaptations/Modifications: Inherent in lesson design
V. Materials: Overhead projector, keynote, clicker, white board, expo markers, pencils, and notes.	Required Adaptations/Modifications:
 VI: Procedure: A. Set / Hook: To start off today's lesson we are going to watch this short video that is an introduction to the essential question, "What is a polygon?" http://www.youtube.com/watch?v=9eSGGUKC1fk B. Transition: Now that you have been introduced to a couple of "polygons" we are going to move into our discussion of the wide variety of polygons that we have in our world today. C. Main Lesson: 1. We will start off by going through the following list of polygons and for some of them discuss where we see them in our world today. 	For my different learners, I will provide a visual aspect to my lesson, a written explanation, and an oral overview of all the material that we are going to be covering.



(Algebra) Find the missing angle measure in the pentagon at the right.

Step 1 Find the sum of the angle measures.

 $(n-2)180^\circ = (5-2)180^\circ \leftarrow$ Substitute 5 for *n*. = 540° \leftarrow Simplify.

Step 2 Write an equation. Let x = the missing angle measure.

 $\begin{array}{rcl} 540^\circ &=& 90^\circ + \, 75^\circ + \, 130^\circ + \, 135^\circ + \, x^\circ & \leftarrow \mbox{Write an equation.} \\ 540^\circ &=& 430^\circ + \, x^\circ & \leftarrow \mbox{Simplify.} \\ 110^\circ &=& x^\circ & \leftarrow \mbox{Subtract 430}^\circ \mbox{ from each side.} \end{array}$

The missing angle measure is 110°.

5. The students will have a chance to practice their newly obtained knowledge with the following example: "A hexagon has five angles with measures of 142, 84, 123, 130, and 90. What is the measure of the sixth angle?"

75°

130°

135

5. The final main idea of this lesson is what is a regular and an irregular polygon. We will define what it means to be both a regular and an irregular polygon. Then we are going to use the following example to discuss how we can find the angle measures of all of the interior angles IF the polygon is REGULAR.

Multiple Choice A carpenter wants to know the angle measures of the window at the right in order to cut out the correct space in a wall. If the window is a regular octagon, what is the measure of each angle?
 A 85° B 135° C 142° D 156°

 $(n-2)180^\circ = (8-2)180^\circ \leftarrow \text{Substitute 8 for } n.$

 $= 1,080^{\circ} \quad \leftarrow$ Simplify.

 $1,080^{\circ} \div 8 = 135^{\circ} \quad \leftarrow$ Divide the sum by the number of angles.

Each angle of a regular octagon has a measure of 135°. The correct answer is choice B.

The final slide of the keynote is a chance for students to practice what we have just covered. Each row will be assigned a specific polygon from the list on the slide. The students will work individually, but then we will come back together as a class and discuss each problem.

 D. Transition: Now that we have covered angles and polygons, you should all be fluent in finding the sum of the angle measures in any polygon. E. Conclusion: Now that we have established our polygons and are able to classify different polygons, tomorrow we will move into finding the area of certain polygons. 	
VII. Assessment: Today's lesson is full of informal assessment. During individual work time, I will be able to check for understanding in all of my students.	Required Adaptations/Modifications: For the students who struggle more often than not, I will be able to devote a little bit of extra support and time during work time throughout the lesson.
VIII. Assignment: The assignment will be given with tomorrow's assignment.	Required Adaptations/Modifications:
 IX. Self-Evaluation: Today's lesson overall went fairly well. With the help of the pre-assessment I knew that the students had a great background knowledge with the different types of polygons. Therefore we were able to go over that portion of the lesson more quickly and move into the newer material. I definitely needed work out more examples for the class before moving into their individual work time. I also would elaborate more on finding the individual angle for the regular polygons a bit more. Students caught on to the concept during the lesson, but with their practice problems they were a bit confused about when we could find the individual angle and when we couldn't. 	X. Coop's Comments:



ANGLE MEASURE OF A REGULAR POLYGON	
 Multiple Choice A carpenter wants to know the angle measures of the window at the right in order to cut out the correct space in a wall. If the window is a regular octagon, what is the measure of each angle? 	Find the sum of the measures of the interior angles of each polygon. 7. pentagon 8. octagon 9. hexagon 10. decagon 11. triangle 12. dodecagon
3. Find the measure of each angle of a regular polygon with 5 sides.	

Day Two:

Student Teacher: Angela Bruhn

Grade Level: 8th Grade

Date: 2/19/2013

State Standard: In grades 6–8, all students should precisely describe, classify, and understand relationships among types of two- and three-dimensional objects using their defining properties.

Subject: Pre-Algebra Name of Lesson: Angles and Polygons

Period / Time: 6th 47 minutes

I. Goal: When given a parallelogram, a triangle, and a trapezoid, students will be able to determine the area of each polygon.	Required Adaptations/Modifications:
 II. Objectives: When given a parallelogram, students will be able to determine the area of the given parallelogram. When given a triangle, students will be able to compute the area of the given triangle. When given a trapezoid, students will be able to conclude what the area of the given trapezoid is. 	Required Adaptations/Modifications:
III: Faith / Values Integration: I expect my students to be respectful of one another and when they are given time to work together, they need to be respectful of one another's work.	Required Adaptations/Modifications:
IV. Integrated Technology: We will be using the overhead projector to project the power point presentation for the lesson.	Required Adaptations/Modifications: Inherent in lesson design

V. Materials: Overhead projector, power point, clicker, homework, white board, expo markers, pencils, and notes.	Required Adaptations/Modifications:
 VI: Procedure: A. Set / Hook: To start off today's lesson, we are going to review the procedure in which we are to use to find the area of a square or a rectangle. B. Transition: Since we have recalled what we need to do to find the area of those two simple polygons, we are going to move into finding the area of three other polygons. 	There will be several visual and orally presented examples. In order to reach as many students, I will do several examples and go into great detail of the processes in which we will need to find the area.
 C. Main Lesson: 1. To start off we are going to focus on finding the area of a parallelogram. I will ask, "How do we know if a polygon is a parallelogram?" 2. I will discuss how the parts of a parallelogram that we will need to find the area and then we will take a look at the formula used for the area. REY CONCEPTS Area of a Parallelogram The area of a parallelogram equals the product of any base length b and the corresponding height h. A = bh 3. We will do the following example as a class to make the idea more concrete. 	
 4. Next, is finding the area of a triangle. I will make sure that we make the connection that the area of a triangle is one half of the area of a parallelogram. 	





2 ft 4 ft 10 ft

5 ft

3 ft

8 ft

and it

have

problem.

the area of

incorporates all that we covered today all in one We are going to find the following polygon.

D. Transition: We have just found the areas of all different kinds of	
 polygons. E. Conclusion: Now that we are able to find the area of different kinds of polygons, our next step is to focus on circles and how we are going to find the area and circumference of a circle. VII. Assessment: 	Required
During work-time throughout the lesson, I will be doing an informal assessment to make sure my students are comprehending the topic we are on before we move on. A more formal assessment can be found in the assignment portion.	Adaptations/Modifications:
VIII. Assignment: The students are each given a colored sheet of paper that contains 6 problems from today and yesterday's lesson. There are six different colors. The students will be given enough time in class to finish the problems. When they finish the problems individually they will meet up with the people who have the same color of worksheet. They will then discuss the problems and if they have any disagreements they will be able to work them out together.	Required Adaptations/Modifications: More time will be given if students are in need of more time.
IX. Self-Evaluation: This lesson was a fun lesson to teach. There were a variety of topics all circled around the area of different polygons. Students were actively involved in the	X. Coop's Comments:

conversation and had some really good questions. The last challenge problem was a lot of fun to do with the class. It also ties into the lesson for tomorrow.

Before finding the area of the trapezoid, I would first explain to the students about how we get the equation that we do.

The "homework" activity was very effective. It was awesome to see students discussing their math problems and challenging each other if they were disagreeing. They were interacting with math as the center of the interaction.





Day 3 Lesson Plan

I. Goal: Students will be able to find the circumference and area of a circle and find the area of irregular figures.	Required Adaptations/Modifications:
 II. Objectives: When given a circle, students will be able to classify parts of that circle. When given a circle and its radius, students will be able to compute the circumference of the circle. When given a circle and its radius, students will be able to determine the area of the circle. 	Required Adaptations/Modifications:
III: Faith / Values Integration:	Required Adaptations/Modifications:
IV. Integrated Technology: We will be using the overhead projector to project the power-point presentation for the lesson.	Required Adaptations/Modifications: Inherent in lesson design

V. Materials: Overhead projector, power-point, clicker, homework, white board, expo markers, pencils, and notes.	Required Adaptations/Modifications:
 VI: Procedure: A. Set / Hook: We are going to a quick overview of yesterday's lesson. I will ask them to give me the three polygons that we found the areas of and also the formula used to find the area for those three. B. Transition: Now that we have found the areas of several different polygons, we are going to transition into circles and finding the circumference and area of a circle. C. Main Lesson: 	For my different learners, I will provide a visual aspect to my lesson, a written explanation, and an oral overview of all the material that we are going to be covering
 To start off today's lesson we are going to break the circle down into 4 main parts with the following diagram: <i>Circumference</i> is the distance around the circle. A radius is a segment that has one endpoint at the center and the other endpoint on the circle. 	
A <i>chord</i> is a segment A <i>diameter</i> is a chord that passes through the center of the circle.	
 Then we are going to zoom in on the topic of (Pi) and its significance in circles. First I will define that π = C/d. And then how we manipulate that equation into the formula for the circumference (C). We will watch this short video that describes the significance of pi in greater detail. 	
4. Next we will discuss the formula for finding the area of a circle.	
$A = \pi r^2$	





IX. Self-Evaluation: The video, was a bit of a side point, but the students were surprised by the information that it provided and it was a different tool for instruction to mix things up for them as well.	X. Coop's Comments:
It was very helpful to review the parts of the circle even if they have seen them before. It got them thinking and the wheels turning to get us going.	
I didn't allow enough time to discuss the irregular figures as much as I had hoped. So allowing more time to cover that topic would be a good idea.	









Co-op's Comments: (An overview of the project and the test along with 2 lesson's detailed comments)

Pre-Algebra (8th Grade) Unit 7 "Summation of Thoughts" regarding Unit 7 Review Activity and Unit 7 Exam.

Student Teacher: Ms. Angela Bruhn Cooperating Teacher: Mr. Nick Restau

Unit 7



7-1 Pairs of Angles

7-2 Angles and Parallel Lines

7-3 Congruent Polygons

7-4 Classifying Triangles and Quadrilaterals 7-5 Angles and Polygons

7-6 Areas of Polygons

7-7 Circumference and Area of a Circle

Unit 7 Review

For the review activity, Ms. Bruhn developed a "solve and search" activity in which students would be engaged out of their desks, moving around the room. In this activity, cards with problems were placed throughout the room. Once solved, students would continue on the established sequence of problems, moving in order from one to the next. There were 30 cards total. Students worked in pairs or groups of three as they progressed through the task. This was a great opportunity for peer learning and interaction.

As the students engaged in the activity, Ms. Bruhn floated throughout the room, making sure to check in with each group, answering questions, probing for understanding, and maintaining control over the group.

The willingness and creativity that Ms. Bruhn has in regards to this activity and the others implemented in her time here at Milford Public Schools has proven to be a great strength of hers as she develops her teaching practices. This ability directly translates into student engagement, which in turn leads to higher student achievement.

Unit 7 Exam

This unit exam is one of many that Ms. Bruhn has created in her student teaching experience here at Milford Public Schools. Her assessment development has been more than adequate, providing clear and concrete directions, adequate space for student work, as well as appropriate questions. The sections were clearly marked and ordered as the curriculum was delivered to the students. This organization is well received by the students.

The overall results of the exam were very well. The lessons leading up this exam were well developed, and the conceptual knowledge grounded into the students. This exam focused on two major components found in a geometry unit, application of definitions and terminology, and computation utilizing formulas. Students were successful in both areas. Overall, a very well done unit.

	Areas of Polygons
	Are-Algebra Alich Restan
	7-0-2
	Section 7.6
-	want through quit , resolvered ideas / concepts of vertical angles ,
	adjucent angles, corresponding angles, and alternate
	muner angles.
-	what Honoregh vest of quit, good discussion and provided classity
	when nuded.
1:03	Begun the power print
_	- Before ming into 1st slick, you deal a good jub at
	fuling all where the students correctly are up board
	examples.
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	4
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	La saint in stricte, but re-say.
my use this	
the hight? -	> locm / 15 cm / t / un a rourn example.
	Can I meanine the hight using the
	10 cm walls?

After each shale you did a good job at chucking student understanding. - Maybe take this further by asking questions before moving) on to engage those we muy "umpy" about. - I liked how worked the examples out, very organized and clear. Did agreat job descussing the figures. if a student asks, "Where do we get the formula for a trapezoid?" Can you tell them. - you illustrated the tryagle and parallelograme well. - Just wondiving? Gotta anticipate such questions. 1:21 Trapuzoids - good timing today. -> Dillon Asked! Amazing. - explaination - use two trape coids to mule a purallelogram. The height is the sume for the purdletigram as it is for the trapeoid. The sure of the parallelogram is (bitbe). This art in 1/2 to get one trypezoid. O Chullinge Questin is Avesome. La maybe un different colors of marhers. Lo pice out, good job, kids engaged. New Homemute Activity

Nuch Ristan Juit Friday, Feb. 22nd. - Curaumprener and Area of Circles Question: what is the conceptual difference between Area & Circ ... Span vs. Measurment. C= 2The or C=TTd A=Tr2 14yd. Did a good job of example: Ly I liked your organization, took time to identify all the pues and formulas nucled. L' worked out example very well. 28.00 Lo when you multiplied 28 and IT, you did . 3.14 I would have dine " Then you gave kich apportunity to 3.14 do #8 on their own, finding area 28 and arcumprence casies for arrayone to visualine as you work through the problem 12m - always he over you's moving quickly through getting to each student. - you did good at doing this, Los Arca = TTY2 I might he good to reinfire PEMDAS. exponents hefere multiplication "I know you showed this in your example, yet always good to show. - Sometimes Next a tome to this, but I hlad him you brought congrove back tigether on the board, to check solutions.

Finding the and it an irregular figure.
Malbox.
 - Discurred very well, preced out the problem. Good questions to
both involve and chich student understanding.
broad you gue them homework, mughe a pop quie monetury?
2 problems. I w/ deamster, I w/ radius?
1 den 't kour , just a thought.

Reflection

Student Learning Progress

 When you look at the pre-assessment and the post-assessment you see a drastic change in the understanding that the students have in regards to polygons, area, and circles. A few students had an idea of how to find the area of a triangle before the lesson began, but after we covered the topic of finding area they were not only able to find the area of a triangle; but, also the area of a trapezoid, circle, and parallelogram.

The student's who didn't have a very good understanding of what the area would be for a triangle, grasped the idea of finding area of a triangle, trapezoid, a circle, and a parallelogram. This is reflected in the post-assessment in the scavenger hunt and the test. Below is some of the results of the post assessment. Using the same rubric from the pre-assessment and from the results of the test we see a drastic improvement in all areas. Not all students were able to grasp all of the concepts, but there was improvement in their abilities as a math student.



- 2. I believe the unit objectives were met. Students were exposed to different polygons in a variety of representations in our world. Through the post-assessment we see that their overall idea of polygons and the different things we can do to find out information about them has been enhanced. The majority of students were able to find the area of different polygons and circles.
- 3. There was a bit of a lack of growth in a couple of students. One student in particular lacks confidence in her abilities. She is a very bright student she is just constantly second guessing herself. She needs some extra attention to formulize the concepts as we go on with our lesson. One other young gentleman has some fairly large learning gaps. He needs things to be slowed down a great deal and explained in great detail. He doesn't have the background knowledge that a lot of the students do. It isn't a bad thing, it is just something that I may not have addressed enough to make him more successful.
- 4. If I were to teach this unit again, I would incorporate more hands on learning activities. Reading over my students self-reflections I realized that they really like a lot of variety and that is something that I need to work on to make my students stay involved in their own learning.

Personal Professional Growth

1. What did you learn about effective instruction as a result of this experience? Effective instruction can make or break a lesson. If you are not prepared to deliever a lesson with enthusiasm and with great clarity, you risk losing the motivation from your students. Effective instruction doesn't just happen within the class period itself. It happens long before you deliver your lesson, with you planning and preparations for that class period. The more time you take to prepare for your lessons the more you are ready for anything the class can throw at you. Knowing what questions may arise from your students is also very crucial in being an effective teacher. You need to listen to your students and be prepared for things that may come up.

2. How has this experience changed your perception of yourself as a teacher?

Before my student teaching experience began, I was very nervous that I would suddenly question my choice of becoming a teacher. Thus far into my student teaching experience as well as throughout this work sample, I see myself as a teacher. Nonetheless, I am a teacher that has a lot to improve on, but also a teacher who has a lot of heart and passion for the profession.