

Week of 1/25/16- 1/29/16 7th Grade Math – Booher, Clarke, Cooper, & Miller

Topic: <ul style="list-style-type: none"> • Geometry: <ul style="list-style-type: none"> ○ Circles 	Standards: <ul style="list-style-type: none"> • 7.G.4 Know the formulas for area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.
Lesson Essential Question: <ul style="list-style-type: none"> • What is the relationship between the area and circumference of a circle and how can this be used to solve problems? 	Students will be able to.... <ul style="list-style-type: none"> • Derive the formula for the circumference of a circle. • Derive the formula for the area of a circle. • Describe the relationship between the circumference and area of a circle. • Use the formula for circumference of a circle to solve problems. • Use the formula for area of a circle to solve problems. • Determine the radius or diameter of a circle when the area or circumference is known.
	Students will know... <ul style="list-style-type: none"> • The formulas for area and circumference of a circle. • Conceptually what pi is. • The different properties of a circle: radius, diameter, arc, and chord. • The relationship between area and circumference of a circle.
Activating Strategy: <ul style="list-style-type: none"> • BrainPOP videos <ul style="list-style-type: none"> ○ Circle ○ Pi • Flocabulary video <ul style="list-style-type: none"> ○ Area and Circumference 	Vocabulary: <ul style="list-style-type: none"> • Radius, diameter, arc, chord, circumference, area, pi, ratio, irrational number, inscribed, square root (perfect square), perimeter

Lesson Instruction	
Learning Activity/Assignment 1: <i>UNDERSTANDING PI & CIRCUMFERENCE</i> <ul style="list-style-type: none"> • Foldable –Properties of a circle (radius, diameter, chord, arc) • “Saving Sir Cumference” activity- understanding what pi is • “Sir Cumference and the Dragon of Pi” read aloud book Assessment Prompt for LA 1: <ul style="list-style-type: none"> • Analysis of “Saving Sir Cumference” activity table and questions 	Graphic Organizer: <ul style="list-style-type: none"> • Foldable – Properties of a circle (radius, diameter, chord, arc)
Learning Activity/Assignment 2: <i>CIRCUMFERENCE OF CIRCLES</i> <ul style="list-style-type: none"> • BrainPOP-Circles video and quiz • 100,000 Digits of Pi • Guided Notes- Perimeter and Circumference • Perimeter and Circumference Practice Assessment Prompt for LA 2: <ul style="list-style-type: none"> • BrainPOP interactive quiz 	
Learning Activity/Assignment 3: <i>AREA OF CIRCLES</i> <ul style="list-style-type: none"> • BrainPOP-Pi video and quiz • Guided Notes- Area of a Circle • Area of a Circle Practice Assessment Prompt for LA 3: <ul style="list-style-type: none"> • Exit Ticket 	Assignment: <ul style="list-style-type: none"> • Spiral Review Practice Problems

Learning Activity/Assignment 4: *AREA OF CIRCLES - COMPLEX*

- Flocabulary: Circles- Circumference and Area video and quiz
- Finding Area Challenge Activity (shaded areas and compound shapes)
- Versatiles Activity (Finding area of shaded and compound shapes)

Assessment Prompt for LA 4:

- Flocabulary interactive quiz

Learning Activity/Assignment 5: *AREA AND CIRCUMFERENCE OF CIRCLES WORD PROBLEMS*

- Pi Song
- Area and Circumference Word Problem Activities
 - “What did the Pencil Say to the Paper?”
 - “How do you get a One-Armed Monkey Down from a Coconut Tree?”
- Additional Word Problems on pg. 181 of the EOG Ready Workbooks

Assessment Prompt for LA 4:

- 3-2-1

Summarizing Strategy:

- Respond to Essential Question with partner
- One sentence summary independently