Unit 8: Circles

ccss	4 – Mastery	3 – Proficient	2 - Basic	1 – Below Basic	0 – No Evidence
Relationships in circles (G.C.2)	Can extend thinking beyond the standard, including tasks that may involve one of the following: Designing Connecting Synthesizing Applying Usstifying Critiquing Analyzing Proving	Describe and use the relationship to calculate values for all of the following: central angle inscribed angle circumscribed angles inscribed angles on a diameter angle formed by the radius of a circle and a tangent	Describe and use the relationship to calculate values for 4 of the following: central angle inscribed angle circumscribed angles inscribed angles on a diameter angle formed by the radius of a circle and a tangent	Use the relationship to calculate values for 3 of the following: central angle inscribed angle circumscribed angles inscribed angles on a diameter angle formed by the radius of a circle and a tangent	Little evidence of reasoning or application to solve the problem Does not meet the criteria in a level 1
Inscribed and circumscribe polygons (G.C.3)		Construct <u>both</u> of the following: the inscribed circle of a triangle. the circumscribed circle of a triangle	Construct <u>one</u> of the following: • the inscribed circle of a triangle. • the circumscribed circle of a triangle	Identify the following:	
Arch length and sector area (G.C.5)		Define the radian measure of the angle as the constant of proportionality Derive and explain the formula for the area of a sector	Calculate a radian measure when given an arc length and its radius. Given the area of a sector, find the radius	Convert degrees to radians using the constant of proportionality Find the area of a sector	
Constructions (G.CO.12)		Use a variety of tools and methods to perform both of the following with precision: Construct perpendicular lines Construct a line parallel to a given line through a point not on the line.	Use a variety of tools and methods to perform both of the following: Construct perpendicular lines Construct a line parallel to a given line through a point not on the line.	Use a variety of tools and methods to perform one of the following: Construct perpendicular lines Construct a line parallel to a given line through a point not on the line.	
Constructions (G.CO.13)		Construct an inscribed regular hexagon and inscribed square	Construct an <u>inscribed</u> regular hexagon or an <u>inscribed square</u>	Construct a square given a side	
Circle formula (G.GPE.1)		Explain why the Pythagorean Theorem can be used to derive the equation of a circle, given the center and radius	Use the Pythagorean theorem to find the equation of a circle	Use the Pythagorean theorem to find the <u>radius</u> of a circle	