Graphic Organizer

• You may wish to provide the diagrams for each key word. Alternatively, write the definitions and have students draw the diagrams.

Math Link: Wrap It Up!

Planning Notes

- Review and discuss the expectations for a logo versus a piece of art. You may wish to bring in some logos to show the class.
- Provide students with **BLM 10–4 Circles Template**.

Common Errors

- Students may miss one of the required properties.
- \mathbf{R}_{x} Provide a checklist for students to use once they have added each property to their design.

The chart below shows the Rubric for the Math Link: Wrap It Up! and provides notes that specify how to identify the level of specific answers for this project.

Score/Level	Holistic Descriptor	Specific Question Notes
5 (Standard of Excellence)	 □ Applies/develops thorough strategies and mathematical processes for making significant comparisons/connections that demonstrate a comprehensive understanding of how to develop a complete solution □ Uses efficient and effective procedures that may contain a minor mathematical error that does not affect understanding □ Uses significant mathematical language to explain understanding and provides in-depth support for the conclusion 	 provides a complete and correct solution Note: Properties include central angles inscribed angles and their relationship to arcs and central angles chord properties, including perpendicular bisectors tangent properties, including the Pythagorean relationship
4 (Above Acceptable)	□ Applies/develops thorough strategies and mathematical processes for making reasonable comparisons/connections that demonstrate a clear understanding □ Uses reasonable procedures that may contain a minor mathematical error that may hinder the understanding in one part of a complete solution □ Uses appropriate mathematical language to explain understanding and provides clear support for the conclusion	provides a complete response with one missing or incorrectly identified circle property or provides a complete and correct response using one circle only; all properties are clearly identified and correct
3 (Meets Acceptable)	 □ Applies/develops relevant strategies and mathematical processes for making some comparisons/connections that demonstrate a basic understanding □ Uses basic procedures that may contain a major mathematical error or omission □ Uses common language to explain understanding and provides minimal support for the conclusion 	correctly completes a circle design, demonstrating an understanding of central and inscribed angles and chord properties or correctly completes a circle design with tangent properties that use inscribed and central angles and chord properties, but the properties are not explicitly stated
2 (Below Acceptable)	□ Applies/develops some relevant mathematical process for making minimal comparisons/ connections that lead to a partial solution □ Uses basic procedures that may contain several major mathematical errors □ Communication is weak	correctly completes a circle diagram and demonstrates an understanding of central and inscribed angles or chord properties and how measures are calculated or the links between tangent properties and angles or chords, but they may not be completely developed
1 (Beginning)	 □ Applies/develops an initial start that may be partially correct or could have led to a correct solution □ Communication is weak or absent 	provides a correct start to a circle diagram indicating some elements of the circle, but makes few links to the properties using these elements or correctly completes a circle design and indicates the measure of a central angle or a basic chord property