

**Michigan Center School District
Math Department Curriculum**

Updated October 21, 2014

Power Standard-

Most important skills defined within a grade level/course
expect proficiency (according to grade level ranges or 75%)

Grade Level/Course: Kindergarten

Sequence of Units

- **Unit 1 Exploring Attributes and Shapes (6 weeks)**
 - **Standards:**
 1. K.MD.3- Classify object and count the number of objects in each category.
 2. K.G.1-3- Identify and describe shapes (squares, circles, triangles, rectangles, hexagon, cubes, cones, cylinder, and spheres).
 3. K.G.4-6- Analyze, compare, create and compose shapes.
 - **Vocabulary/Key Concepts**
 1. Sort and Classify
 2. Attributes
 3. Two Dimensional (Squares, circles, triangles, hexagons)
 4. Relative Positions (above, below, beside, in-front of, behind and next to)
 - **Essential/Focus Questions:**
 1. What makes a square (circle, triangle, rectangle, hexagon) a square (circle,...)
 2. What shapes do we see in our environment?
 3. How do we describe the position of objects relative to other objects?
 4. What are some ways we can sort a group of objects?

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- **Unit 2 Exploring Numbers (8 weeks)**

- **Standards:**

1. K.CC.4 Count to tell the number of objects
2. K.CC.6-7 Compare Numbers
3. K.OA.1-5 Understand addition as putting together and adding to and understand subtraction as taking apart and taking from.

- **Vocabulary/Key Concepts**

1. 5 as an anchor number
2. Communicative Property
3. Comparing Numbers
4. Compensation
5. Compose/Decompose
6. Counting
7. Equivalence/Equals
8. Subitizing
9. One-to-One Correspondence
10. Part-part-total
11. Quantity
12. Representing Numbers

- **Essential/Questions:**

1. How do we use numbers to count?
2. How do we use numbers to compare?
3. How do numbers relate to each other?
4. Why is five a special/helpful number?
5. What can help us to recognize numbers instantly and accurately without counting (subitize)?
6. What does it mean to break apart (decompose) and to combine (compose) numbers?

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- **Unit 3 Exploring Measurement (3 Weeks)**
 - **Standards:**
 1. K.MD.1-2 Describe measurable attributes

 - **Vocabulary/Key Concepts**
 1. Attributes
 2. Compare
 3. Distance
 4. Length
 5. Measurable Attributes
 6. Measure
 7. Order
 8. Sort
 9. Weight

 - **Essential/Focus Questions**
 1. Why are objects measured?
 2. What attributes of an object can be measured?
 3. What are different ways objects can be measured?
 4. How can I tell which of two objects is longer than the other?
 5. How can I tell which of two objects is heavier?

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- **Unit 4 Data and Data Representation (4 Weeks)**
 - **Standards**
 1. K.CC.4-5 Count to tell the number of objects
 2. K.CC.6-7 Compare Numbers
 3. K.OA.1-5 Understand Addition as putting together and adding to, and understand subtraction and taking apart and taking from.
 4. K.MD.3 Classify objects and count the number in each category.

 - **Vocabulary/Key Concepts**
 1. Attribute
 2. Bar graph
 3. Column
 4. Compare
 5. Concrete Graph
 6. Count
 7. Data
 8. Equal
 9. Fewer
 10. Graph
 11. Less
 12. More
 13. Picture Graph
 14. Row
 15. Sort
 16. Same amount
 17. Descriptive Words Ex. Small, big, rough, smooth, bumpy and color

 - **Essential/Focus Questions**
 1. What questions can I investigate?
 2. How can organize data I collect?
 3. What are different ways I can represent the data I collect?
 4. What do I see/notice about the data?
 5. What questions can I ask about the data?

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6. What questions can I answer with the data?
7. How does data help us make predictions?

• **Unit 5 Deepening and Extending Number (8 Weeks)**

○ **Standards**

1. K.CC.1-3 Know number names and the count sequence
2. K.CC.4-5 Count to tell the number of objects
3. K.CC.6-7 Compare numbers
4. K.OA.1-5 Understanding addition as putting together and adding to, and understand subtraction as taking apart and taking from.
5. K.NBT.1 Work with numbers 11-19 to gain foundations for place value.

○ **Vocabulary/Key Concepts**

1. Addend unknown situations
2. Cardinality
3. Compare
4. Complements of ten
5. Compose
6. Conservation of numbers
7. Count
8. Decompose
9. Equivalence
10. Ones
11. Part-part-total relationships
12. Put together/take apart situations
13. Subitize
14. Teen numbers
15. Ten

○ **Essential/Focus Questions:**

1. What methods can we use to solve number stories?
2. How could you justify your answer to someone else?
3. What are some ways we can decompose numbers and show the same number in different ways?
4. How do teen numbers lay the foundation for place value?

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5. How might you recognize a number of objects (e.g. dots on cards) without counting?
6. What is the difference between more and less?

• **Unit 6 Exploring Attributes and Shapes (8 Weeks)**

○ **Standards:**

1. K.G.1-3- Identify and describe shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres).
2. K.G.4-6- Analyze, compare, create, and compose shapes.

○ **Vocabulary/Key Concepts**


1. 2-dimensional
2. 3-dimensional
3. Attributes
4. Circles
5. Classify
6. Cone
7. Cube
8. Curved Surface
9. Cylinder
10. Depth
11. Flat
12. Flat Surface
13. Hexagon
14. Length
15. Pyramid
16. Rectangles
17. Rectangle prism
18. Relative position
19. Solid
20. Sort
21. Sphere
22. Square
23. Triangle
24. Width

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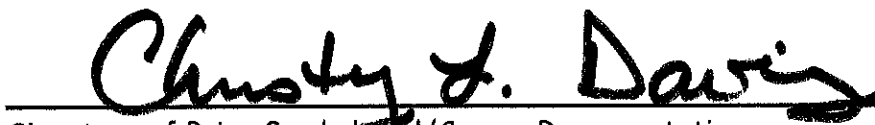
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o Essential/Focus Questions:

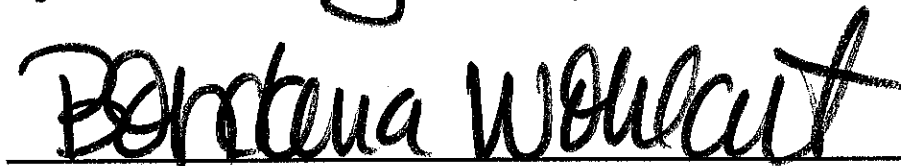
1. What is the difference between a 2-dimensional and 3-dimensional shape?
2. What makes a cube (circle, sphere, cone, and cylinder) a cube (sphere....)?
3. What is the relationship between the vertices, edges and faces of a 3-dimensional figure?
4. What 3-dimensional shape do we see in our environment?
5. What shapes can we create by combining two or more shapes?



Signature of Current Grade Level/Course Representative



Signature of Prior Grade Level/Course Representative



Signature of Next Grade Level/Course Representative