

Oryx Learning

Oryx Learning - Math lessons, practice material and activities.

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Zoom Link: <https://siue.zoom.us/j/4675421233> Meeting

ID: 467 542 1233

Video link



Oryx Learning

- “Our mission is to make learning accessible and enjoyable for all learners”
- With 100 years of curriculum development experience, lessons can be built around students to build on their strengths and cover their weaknesses

Complete Interactive Math Curriculum

- Hundreds of engaging activities designed for conceptual understanding
- Detailed student progress analytics and personalized recommendations
 - Powerful learning tools - examples, solutions and video explanations
 - Trusted and recommended by educators and families

Oryx Learning in the Classroom and its Use as a Formative Assessment tool

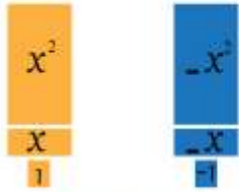
- Oryx Analytics helps parents understand their child's academic performance.
- The data identifies strengths and skills and areas that need improvement.
- This information can help parents create a personalized learning plan for their child to focus on specific areas of need.
 - The analytics empower students to reach their full potential.
 - The language used is simple and easy to understand.
- The most important information is presented first, and sentences are kept short and direct.

Oryx Learning Membership

- Free for schools
- Free trial for teacher, non educators, students
- Monthly and yearly payment options available after the free trial ends



Manipulatives are free for all to use, even without a membership



Algebra Tiles



Base Ten Blocks



Clock



Color Tiles



$$8 \div 2 = 4$$

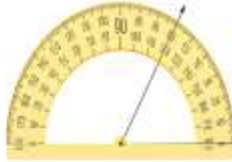
Division Counters



Find Lowest Common Multiple using Division Method



Permutations



Protractor



Cuisenaire rods



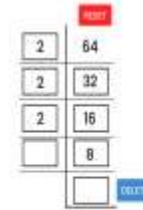
Data and Graphs



Fraction Circles



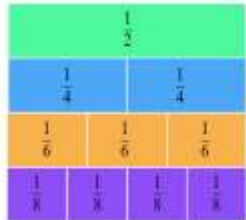
Fraction Models



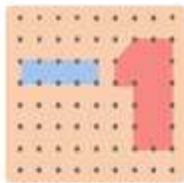
Prime Factorization using Division Method



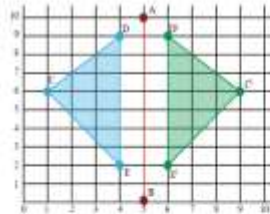
Money USD --- \$1 --- \$5 --- \$10



Fraction Tiles



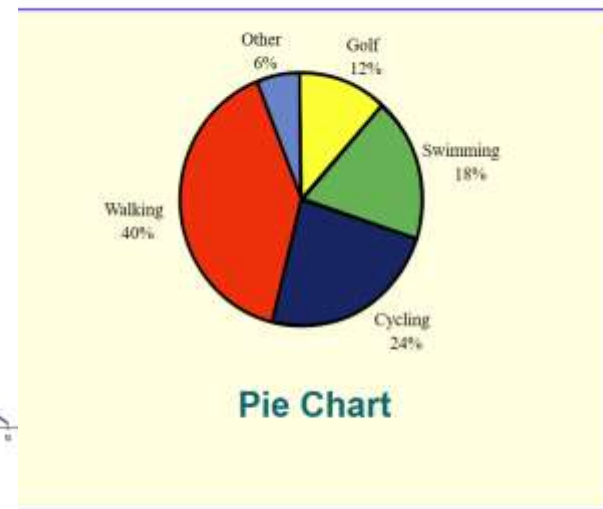
GeoBoard



Graphing Tool



Integer Chips



Pie Chart



Pattern Blocks

22	23	24	25	26
27	28	29	30	31
32	33	34	35	36
37	38	39	40	41

Interactive Hundreds Chart



Linking Cubes



Money



Number Lines

How can teachers use it?

- Teacher can see the performance of each individual student.
 - Detailed analytics showing individual and group progress, strengths, and areas needing remediation.
- They know where the student is succeeding and where they are struggling.
- They can assign certain lessons to certain students depending on their readiness level.

Oryx Learning in the classroom

How can students use it?

- Variety of FREE virtual manipulatives to use for visual aids for all math lessons
 - Games themed around math to challenge and learn
 - Lessons can be customized to student needs
- Access to video tutorials of how to complete an assigned problem
- Earn awards and trophies for completing specific tasks on Oryx

Oryx as a Learning Tool- What Problems Does it Solve in the Classroom?

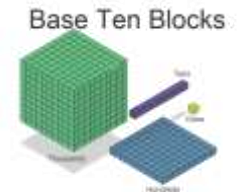
- Accessibility of resources at home for parents
- Connection between technology and physical tools for mathematics
 - Teacher and student friendly- personal and classroom use
 - Achievement awards in other formats
 - Instant feedback on students' achievement
- Ability to tailor each lesson for all learning levels
- Investing in Oryx Learning is cost-effective, as it reduces the need for physical textbooks and materials.

Oryx Example Used in a First Grade Classroom

- Interactive manipulatives for mathematics can be used as an introductory or exploratory activity in connection with real-life math manipulatives used for formative assessment
- Can be used to introduce students to online manipulatives that can be accessed at home
 - Used as a tool for explanation of concepts students may have common misconceptions about

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- An example segment of a lesson plan used in a first-grade place value lesson using Oryx manipulatives of base ten blocks:

Technology: I will use Oryx Manipulatives which are online mathematics manipulatives for students to interact with. I will display the base ten block manipulatives on the Smart Board and demonstrate to students how the base ten blocks can be grouped to create one hundred. I will call students that would like to participate up to the board to try this on their own using the technology. I will call on a few students and offer assistance when needed on the Smart Board.



Oryx used in a lesson plan for 2nd Grade from fall 2023 SIUE

Learning Segment Topic: Students will be able to understand Place Value

Lesson Topic: Introducing hundreds place using Oryx Learning

Part 3: Assessment Plan

Pre-Assessment Tools Used Prior to Lesson:

Using oryx webpage we will review with students two-digit numbers by showing them a number on the board and asking how many tens and how many ones it has. They will represent this number using the oryx manipulatives link. We will have students work in small groups to determine the answer together before they show it to us.

Example question: "What does the 1 mean and what does the 6 mean in the value (number) 16?"

Formative Assessment Tools Used During Lesson: First, the teacher will do a couple example problems on the board with the students. Next, the class will do a problem together with the teacher to ensure the students understand. Then, the students will get the chance to work on some problems on their own that the teacher had premade, using the lesson on oryx. The webpage will then have each students scores, after which teacher can assign homework based on students readiness levels.

Summative Assessment Tool(s) for Learning Segment:

Students will complete a list of practice problems on oryx that involve 2 and 3 digit number knowledge, this will check their understanding of how to represent each number in words and with ten base blocks. The program then will then give us the final results of where students stand on the learned topic.

Students will also play a game of creating numbers using the base 10 blocks manipulatives, and have their partner guess what that number is.

Part 4: Supports for Diverse Students in Sequence of Instructional Strategies and

Learning Tasks

**Choose Oryx Learning for
all of your students math
needs!**

Thank you!

THE END.