



MANGAHIGH CHALLENGE

Are you REALLY good at playing video games?

Take the Mangahigh Challenge and play against your friends...
The program keeps score; so compete against your friends.

An “Ice Cream Sundae Social” will be held in early September for everyone who earns at least 30 medals. But, why stop there????

There’s a special prize for the OMS student earning the most medals.

Play your way to great grades and have fun!!!!

Questions? Contact Mrs. Robitaille at robitali@collier.k12.fl.us

READ ON FOR DIRECTIONS AND HINTS...

Directions: From this web page, go to Angel. Click on Mangahigh.
First time users, sign into the Mangahigh program with:

User name: ccps and your ID number

Password: learnmanga1

For the mandatory fraction challenges

1. Click on "Games".
2. Click "Prodigy".
3. Check off "Number" under "Courses" on the right side of the screen.
4. Under "Topics", click on "Fractions".
5. Find the title you want from these four activities and click "Play".
 - **Write one Number as a Fraction of Another**
 - **Addition and Subtraction of Fractions**
 - **Multiplication with Fractions**
 - **Division with Fractions**
6. Then, either "Play the Game" OR "Teach Me Now" for the tutorial.

REMEMBER 30 MEDALS IS YOUR TICKET TO THE ICE CREAM SOCIAL!

1. **To Access All Games** - From the home screen of Mangahigh, click on "Games" and scroll down to see the choices.

- Passing the cursor over “GO” lets you see the skills needed for that game.
- To find the directions for a game, click on the game and “Instructions” at the bottom of the page.
- For points needed to earn a medal, choose the game, click on “GO” and click on “Achievements” at the bottom of the page.
- For strategy hints to beat your friends, go to the game and click on “Improve Your Score” at the bottom of the page.

2. **Challenges:** “Preparation” activities can earn you medals even faster than the games! To access these from the home screen, click on “Games” and choose “Prodigi”. Find a skill from the **PREPARATION ACTIVITY CHOICES** (below). Set the “Course”(either “number”, “algebra”, “shape”, or “data”) and **Grade Level you have just completed** on the right side of the screen. Then locate the activity by name and “play”. There are tutorials for every skill, if you want to review before attempting to earn a medal.

“GRADE 6 PREPARATION” ACTIVITY CHOICES: (SET AT LEVEL 5)

Number/Basic Number Rules/ Times Tables

Number/ Basic Number Rules/ Order of Operations

Number/ Basic Number Rules/Continue Number Sequences

Number/Rounding, Accuracy, and Estimation/Estimates and Approximations

Number/Rounding, Accuracy, and Estimation/Round to the Nearest Tenth, Hundredth, and Thousandth

Number/Number Operations and the Relationships between them/Deal with remainders

Number/Fractions/Write one Number as a Fraction of Another

Number/Fractions/Mixed Numbers and Top Heavy Fractions

Number/Fractions/Add and Subtract Fractions

Number/Fractions/Common Fractions

Number/Fractions/Simplify Fractions

Number/Fractions/Factors and Multiples

Number/Decimals/Order Decimals

Number/Factors, Multiples, and Primes/Least Common Multiple and Highest Common Factor

Number/Simplifying algebra/Add and Subtract Terms with Single Letters

Algebra/Forming Algebra/Form an Expression or Formula

Algebra/Solving Linear Equations/Introducing Equations

Algebra/Solving Linear Equations/ Solving Linear Equations

Algebra/Straight line Graphs/Real Life Straight Line Graphs

Algebra/Coordinates/Coordinates

Data/Speed, Distance, Time/Distance Time Graphs

Data/Representing Data/Bar Charts

Data/Representing Data/Line Graphs

Data/Dealing with Data/Understanding Discrete and Continuous Data

Shapes/3D Shapes/Nets

Shapes/Length, Area, and Volume/Volume by Counting Cubes

Shapes/Length, Area, and Volume/Volume of a Prism

Shapes/Length, Area, and Volume /Perimeter

Shapes/Length, Area, and Volume/Area of Quadrilaterals

Shapes/Units of Measure/Metric Units

Shapes/Units of Measure/Measuring

Shapes/Angles/Types of Angles

Shapes/Angles/Measuring Angles

“GRADE 7 PREPARATION” ACTIVITY CHOICES: (SET AT LEVEL 6)

Number/Fractions/Find a Fraction of a Whole Amount-Whole Number Answers

Number/Fractions/Multiply with Fractions

Number/Fractions/Divide with Fractions

Number/Fractions/Order Decimals and Fractions

Number/Fractions/Change Fractions into Percentages and Decimals

Number/Decimals/Change Decimals in to Percentages and Fractions

Number/Percentages/Change Percentages into Fractions and Decimals

Number/Rounding, Accuracy, and Estimation/Round using Significant Figures

Number/Rounding, Accuracy, and Estimation/Estimates and Approximations

Number/Ratio and Proportion/Ratios

Number/Ratio and Proportion/Working with Ratios

Number/Ratio and Proportion/Use Double Ratios

Number/Ratio and Proportion/Solving Problems with Ratios

Data/Measuring and Comparing Data/Find the Mean

Algebra/Forming Algebra/Form an Expression or Formula

Algebra/Forming Algebra/Form an Equation

Algebra/Substituting Values/Number Machines

Algebra/Substituting Values/Substitute Whole Numbers into Algebra

Algebra/Solving Linear Equations/Introducing Equations

Algebra/Solving Linear Equations/ Solving Linear Equations

Algebra/Inequalities/Inequalities

Algebra/Inequalities/Inequalities on a Number Line

Algebra/Straight Line Graphs/Real Life Straight Line Graphs

Shapes/Circles and Cylinders/Area of a Circle

Shapes/Circles and Cylinders/Circumference of a Circle

Shapes/Length, Area, and Volume/Perimeter

Shapes/Length, Area, and Volume/Area of Joined Shapes

Shapes/Length, Area, and Volume/Volume of a Prism

Shapes/Length, Area, and Volume/Volume and Problem solving

Shapes/Length, Area, and Volume/Surface Area of Joined Shapes

“GRADE 8 PREPARATION” ACTIVITY CHOICES: (SET AT LEVEL 7)

Numbers/Ratio and Proportion/Solving Problems with Ratios

Numbers/Ratio and Proportion/ Ratio and Proportion- Drawings and Models

Numbers/Percentages/Percentage Increase and Decrease – calculator

Numbers/Percentages/Find One Amount as a Percentage of Another –Calculator

Numbers/Percentages/Find the Percentage Change – Calculator

Numbers/Percentages/Reverse Percentages – Calculator

Numbers/Negative Numbers/Add and Subtract with Negatives

Numbers/Negative Numbers/Multiply and Divide with Negatives

Numbers/Fractions/Add and Subtract Fractions

Numbers/Fractions/Multiply with Fractions

Numbers/Fractions/Division with Fractions

Numbers/Fractions/Find a Fraction of an Amount

Numbers/Calculations with whole numbers/Adjust One Calculation to Find Another

Numbers/Special Number Sequences/Square Numbers

Numbers/Indices/Positive Powers

Shapes/Similar Shapes/Solve Problems with Similar Shapes

Shapes/Similar Shapes/Length, Area, and Volume Scale Factors

Shapes/Transformations/Rotation

Shapes/Transformations/Rotation on coordinate Axis

Shapes/Transformations/Reflection-horizontal or Vertical Mirror

Shapes/Transformations/Enlargement on Coordinate Axes

Shapes/Transformations/Enlargement- Fractional Scale Factors

Shapes/Transformations/Translation

Shapes/Speed, Distance, Time/Speed Time Graphs

Shapes/Speed, Distance, Time Speed, Distance, Time Calculations

Shapes/Length, Area, and Volume /Surface Area of a Cone

Shapes/ Length, Area, and Volume /Surface Area of a Pyramid

Shapes/ Length, Area, and Volume/Volume and Problem Solving

Shapes/ Length, Area, and Volume/Volume of Spheres, Pyramids, and Cones

Shapes/Circles and Cylinders/Volume of a Cylinder

Shapes/Circles and Cylinders/Surface Area of a Cylinder

Algebra/Coordinates/Coordinates in 4 Quadrants

Algebra/Straight Line Graphs/Draw Straight Line Graphs Using $y=mx +b$

Algebra/Straight Line Graphs/Find the Gradient of a Line Using its Graph

Algebra/Straight Line Graphs/Real Life Straight Line Graphs

Algebra/Forming algebra/Form Equations with Indices

Algebra/Solving Linear Equations/Solve Linear Equations Involving Brackets

Data/Questionnaires and Sampling/Practical Ways to carry out a Survey

Data/Representing Data/Stem and Leaf Diagrams

Data/Representing Data/Pie Charts

ALGEBRA PREP ACTIVITY CHOICES: (SET AT LEVEL 7 when levels provided)

Number/Standard Form/Solve Problems Using Standard Form

Number/Indices/Negative Powers

Number/Indices/Use Powers and Roots

Number/Indices/Rules of Indices, Add and Subtract the Powers

Number/Indices/Rules of Indices, Multiply the Powers

Algebra/Simplifying Algebra/Expand sets of single Brackets with Indices

Algebra/Simplifying Algebra/Multiply any Two Brackets Together

Algebra/Simplifying Algebra/Add and Subtract Terms with Multiple Letters

Algebra/Simplifying Algebra/Multiply any 2 Brackets Together

Algebra/Algebraic Fractions/Simplify Algebraic Fractions

Algebra/Algebraic Fractions/Multiply and Divide Algebraic Fractions using Factorizing

Algebra/Algebraic Fractions/Add and Subtract Algebraic Fractions using Factorizing

Algebra/Curves/Recognize the Equations of Common Curves

Algebra/Curves/Drawing Quadratic curves

Algebra/Curves/Find the Equation of a Curve

Algebra/Curves/Find the x and y Intercepts of Curves

Algebra/Solving equations using Graphs/Use Graphs to Solve Equations

Algebra/Solving equations using Graphs/Reflect Graphs

Algebra/Proportionality Equations/Direct Proportion

Algebra/Proportionality Equations/Indirect Proportion

Space/Speed, Distance, Time/Distance, Time Graphs

Algebra/Solving Linear Equations/Solve Linear Equations Involving Negatives

Algebra/Solving Linear Equations/Solve Linear Equations with an Unknown on Both sides

Algebra/Solving Linear Equations/Solve linear Equations Involving Fractions and Decimals

Algebra/Inequalities/Two Inequality Signs

Algebra/Inequalities/ Inequalities on Graphs

Algebra/Simultaneous Equations/Solve Simultaneous Equations – Elimination Method

Algebra/Rearranging formulae/Rearrange Formulae with Indices

Algebra/Straight Line Graphs/Draw Straight Line Graphs using $y = mx + b$

Algebra/Straight Line Graphs/Test to see if a Point is on a Line

Algebra/Straight Line Graphs/Find the Gradient of a Line, using its Equation

Algebra/Straight Line Graphs/Find the Equation of a Line from its Graph

Algebra/Straight Line Graphs/Find the Equation of a Line given its Gradient and a Point

Algebra/Straight Line Graphs/Find the x and y intercepts of Lines

Algebra/Straight Line Graphs/Match Together Equations and Lines

Algebra/Factorizing/Factorize using a Common Term

Algebra/Factorizing/Factorize Quadratics in Form $ax^2 + bx + c$

Algebra/Factorizing/Factorize $ax^2 - b$ using the Difference of 2 Squares

Algebra/Factorizing/Factorize 4 Terms into 2 Brackets

Number/Surds/Rationalize a Denominator

