In an effort to keep parents and guardians informed of the expectations and content being covered in math class this year, this informational handout will be provided for each chapter. Its intent is to assist in guiding you in ways to support your child in deepening their mathematical understanding.

In each chapter we will spend time reviewing material taught in prior grades as it relates to the standards being taught in fifth grade. Our goal is to keep a balance of skill based learning along with enhancing our student’s ability to problem solve and think conceptually.

**Review Material from Prior Grades**

1) Number/shape patterns that follows a given rule (4.OA.5)
2) Represent fractional amounts in various ways (3.NF.2)
3) Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors (4.NBT.6)

**New Material for 5th Grade**

1) I can use parenthesis, brackets, or braces in numerical expressions, and evaluate expressions using these symbols. (5.OA.1)
2) I can generate two numerical patterns using two given rules. (5.OA.3)
3) I can plot points on a coordinate grid to solve real-world problems and interrupt coordinate values of points. (5.G.2)
4) I can graph points on a coordinate plane to solve real-world problems. (5.G.1)

**End of Chapter Expectations**

1) Chapter Assessment

*Please note the list above highlights the main skills to be assessed. Teachers may include additional content to meet the needs of their students.*
**Order of Operations**

<table>
<thead>
<tr>
<th>Step</th>
<th>Expression</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>$2^3 \div [4 - (6\div2)] \times 3$</td>
<td>Because there are different grouping symbols, start by solving the group on the inside ($6\div2$) and solving all other groups by working your way out.</td>
</tr>
<tr>
<td>2.</td>
<td>$2^3 \div 1 \times 3$</td>
<td>Once solved, rewrite the new equation.</td>
</tr>
<tr>
<td>3.</td>
<td>$2^3 \div 1 \times 3$</td>
<td>The next step in the order of operations is to solve all exponents.</td>
</tr>
<tr>
<td>4.</td>
<td>$8 \div 1 \times 3$</td>
<td>Now that multiplication and division are left, you will solve the problem working left to right.</td>
</tr>
<tr>
<td>5.</td>
<td>$8 \times 3 = 24$</td>
<td>Write the new equation and solve.</td>
</tr>
</tbody>
</table>

**Family Practice**

Check out some of these free, math websites to practice expressions and patterns.


*Please note the list above highlights the main skills to be assessed. Teachers may include additional content to meet the needs of their students.*
**Graphing Ordering Pairs on a Coordinate Plane**

Step 1: Use the first number in the ordered pair to move right along the X-axis.
Step 2: Use the second number to move up the grid following the Y-axis.
Step 3: Plot your point at the intersection of the two lines.

*Please note the list above highlights the main skills to be assessed. Teachers may include additional content to meet the needs of their students.*