

June 2017

Dear Parents:

Summer is a great time for children to relax and have fun. It is also a wonderful time for parents and children to spend time together reading and developing mathematical concepts in fun and engaging ways. We hope that you will find the enclosed activities and suggestions helpful in sharpening and maintaining mathematical skills over the summer.

On the reverse side of this letter are some ideas of **GAMES** you can do every day with your child. Most of the items on the list are commercial games. They are motivational and, with parent involvement, these games are an excellent way to get your child to communicate concepts while sharpening thinking skills. They also provide an opportunity for discussion and questions; encouraging your child to evaluate answers, draw conclusions and strengthen reasoning skills. Games are a low stress way to engage your child in math while developing necessary skills. You will also find a list of **WEBSITES** that can assist in practicing **BASIC FACTS**. Information regarding national and local grade-level basic fact expectations is also provided.

On the following page you will find a **SUMMER MATH CALENDAR**. For each day your child completes an activity, please initial at the bottom of the box. Activities can be completed in any order. Those students who return completed calendars in September will be included in Dr. Stellar's special raffle!

Have a wonderful summer!

Sincerely,



Jessica Kitchen

K-5 Math Specialist

Hingham Public Schools

## GAMES

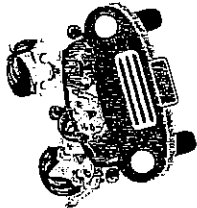
The following list of games, excerpted from *Games and Their Uses in Mathematics Learning* (Sharma, 2008), will help your child sharpen thinking skills, make inferences, draw conclusions, evaluate answers and strengthen reasoning. Beside each title are the skills and concepts that are reinforced.

<ul style="list-style-type: none"> <li>• <b>Simon or Mini Wizard</b> (sequencing, following multi-step directions, visual/auditory memory)</li> <li>• <b>Battleship</b> (spatial orientation, visualization, visual memory)</li> <li>• <b>Cribbage</b> (number relationships, patterns, visual clusters)</li> <li>• <b>Quarto</b> (spatial orientation/space organization, patterns, classification)</li> <li>• <b>Concentration</b> (visualization, pattern recognition, visual memory)</li> <li>• <b>Chinese Checkers</b> (patterns, spatial orientation/space organization)</li> <li>• <b>Pachisi</b> (sequencing, patterns, number relationships)</li> <li>• <b>Checkers</b> (sequencing, patterns, spatial orientation/space organization)</li> <li>• <b>Othello</b> (pattern recognition, spatial orientation, visual clustering, focus on more than one aspect, variable or concept of time)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Score Four or Connect Four</b> (pattern recognition, spatial orientation, visual clustering, geometric patterns)</li> <li>• <b>Krypto</b> (number sense, basic arithmetical facts)</li> <li>• <b>Kalah or Mankalah</b> (sequencing, counting, estimation, visual clustering)</li> <li>• <b>Master Mind</b> (sequencing, logical deduction, pattern recognition)</li> <li>• <b>Four Sight</b> (spatial orientation, pattern recognition, logical deduction)</li> <li>• <b>Black-Box</b> (logical deduction)</li> <li>• <b>Card Games</b> (visual clustering, pattern recognition, number facts)</li> <li>• <b>Dominos</b> (visual clustering, pattern recognition, number facts)</li> <li>• <b>Number War Games</b> (visual clustering, arithmetic facts, mathematics concepts)</li> </ul>
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## BASIC FACTS

Websites	End of Year Expectations
<ul style="list-style-type: none"> <li>• <a href="http://www.xtramath.org">www.xtramath.org</a> (If your child does not remember their password, follow the steps on the website to register your child).</li> <li>• <a href="https://www.varsitytutors.com/aplusmath">https://www.varsitytutors.com/aplusmath</a></li> <li>• <a href="http://www.mathsisfun.com">http://www.mathsisfun.com</a></li> <li>• <a href="http://illuminations.nctm.org">http://illuminations.nctm.org</a></li> <li>• <a href="http://www.ixl.com">http://www.ixl.com</a></li> </ul>	<p><u>Kindergarten</u>: Fluently add and subtract within 5.</p> <p><u>1<sup>st</sup> Grade</u>: Fluently add and subtract within 10.</p> <p><u>2<sup>nd</sup> Grade</u>: Fluently add and subtract within 20.</p> <p><u>3<sup>rd</sup> Grade</u>: Fluently multiply all products up to 10×10 and related division facts.</p> <p><u>4<sup>th</sup> Grade</u>: Fluently multiply all products up to 12×12 and related division facts.</p> <p><u>5<sup>th</sup> Grade</u>: Keep practicing all fact fluency!</p>

# Summer Math Road Trip – Entering Grade 2



Can you finish the math road trip by completing each of the following math activities? Activities do not need to be completed in order. Answers can be placed in the box or on another piece of paper. Some activities do not require you to write down your answer. When the activity has been completed, a family member can place his/her initials at the bottom of the box.

<p>Be a weather watcher. Check the weather every day and make your own chart or tally graph to show your findings.</p>	<p>Make flashcards for your addition and subtraction facts. <b>BE SURE TO PRACTICE YOUR FACTS OVER THE SUMMER!</b></p>	<p>Show 68 cents using quarters, dimes, nickels and pennies. Use:  </p>	<p>Find any number on your number grid (attached) and count up and back by 10.</p>	<p>Ben is 42 inches tall. Kim is 58 inches tall. Who is taller? What is the difference of their heights?</p>								
<p>Go on a bug hunt. Make a chart to show the types of bugs you found and how many of each.</p>	<p>Write a number story. Remember to include units, a number sentence, and a question. See if a friend can solve it!</p>	<p>Using a deck of cards, play Addition Top It. Remember to use only number cards. Have fun!!</p>	<p>You have 4 apples and 1 of them is green. Draw them and write a fraction to show how many apples are green.</p>	<p>Count up and back by 5's to 200.</p>								
<p>Count up and back by 25's to 200.</p>	<p>Explain to a friend how you would complete this pattern: 3, 6, 9...                      Stop at 30.</p>	<p>Show 2 ways to make 89 cents using:  </p>	<p>Free Space – Enjoy the Day  </p>	<p>Draw and label a picture of your family from shortest to tallest.</p>								
<p>Find as many circles, squares, and triangles as you can in your bedroom. List the things you find and what shape.</p>	<p><i>Take A Break!</i>  </p>	<p>Count the doors in your house. Is the number odd or even?</p>	<p>Fill in the missing numbers.</p> <table border="1" data-bbox="938 569 1208 877"> <thead> <tr> <th>In</th> <th>Out</th> </tr> </thead> <tbody> <tr> <td>34</td> <td>40</td> </tr> <tr> <td>62</td> <td>68</td> </tr> <tr> <td>56</td> <td></td> </tr> </tbody> </table>	In	Out	34	40	62	68	56		<p>Write the double facts (example, 3 + 3, 6 + 6) to 20 on a piece of paper. Say them from memory.</p>
In	Out											
34	40											
62	68											
56												
<p>Show 2 ways to make 76 cents using:  </p>	<p>Draw a name collection box for 20.                      Write 5 names.</p>	<p>Use your centimeter ruler and measure 5 objects around your house.</p>	<p><b>You Did It!</b>  </p>									

Student Name: