November 12, 2014

Dear students and families,

In the second nine weeks, students are creating a math board game that supports the content we have covered so far this year. In this document, you will find all requirements, a rubric, a checklist, and any other important information. The outlines for the math steps and directions are also provided, but you do NOT have to use these. They are a guideline. The final project is due on December 16, 2014. If you misplace any documents, please check Mrs. White’s website (<http://mrswhitesbrightthinkingzone.weebly.com>). If you have any additional questions, contact your child’s teacher via e-mail ([awhite@lenoir.k12.nc.us](mailto:awhite@lenoir.k12.nc.us)).

Sincerely,

Amy White

5th grade math teacher

**Objective:** You will create a math board game that relates to one math concept we have covered so far this school year. The game should be able to re-teach or reinforce one of these topics. Think about other board games that you have played and take a look at those rules. As you create your game, please keep your fellow classmates in mind! On the due date, you will have a chance to play the games that your classmates created and provide feedback! Complete all of the requirements below.

**Topic:** Highlight one or more related topics from the list provided that your game will focus on. Your board game must include questions that are related to the topic(s).

|  |  |  |
| --- | --- | --- |
| Place Value of Whole Numbers and Decimals | Modeling Fractions and Decimals | Changing Fractions to Mixed Numbers |
| Compare and Order Whole Numbers | Comparing Fractions | Changing Mixed Numbers to Fractions |
| Compare and Order Decimals | Simplifying Fractions | Adding Fractions |
| Powers and Exponents | Finding Equivalent Fractions | Subtracting Fractions |

**Create the following for your game:**

1. **Name:** Give your game a fun and creative name that has to do with your game.
2. **Theme:** Create a theme for your game (sports, art, fairy tales, etc.)
3. **Steps to solve the math:** Clear, step-by-step directions on how to complete a problem for your topic. An outline is included. *You can write the steps on the attached sheet or type them*.
4. **Game directions:** Clear, step-by-step instructions on how to play the game. *You can write the directions on the attached sheet or type them*. They must include:
   1. Number of players d. Step-by-step instructions
   2. Materials needed e. How a player wins
   3. Goal of the game f. Answer key for all questions
5. **Game board:** Design a colorful and neat chart or board with a start to finish, or any other place that your players will use to play the game. It must fit inside your game box and should be sturdy (not paper).
6. **Game pieces:** Choose or create dice, pennies, rocks paper pieces, tokens, etc. that fit your theme.
7. **Game cards:** You must include at least 15 game cards with 15 different problems to solve.
8. **Game box:** Create the packaging for your game. You will need to find some type of box (shoebox, gift box, cereal box, etc.). If there is writing on the box, you need to cover it with construction paper. The outside of your box must include the following:
   1. Name of your game, number of players, and intended age of players.
   2. A catchy advertisement/slogan that would attract someone to play your game. (Example: Pirate theme: “Arrrr! Add these fractions---or prepare to walk the plank!”)
   3. A picture or illustration that relates to your game. This might be a picture of the game board, or a picture or illustration of people playing your game, etc.
   4. A brief summary (3-5 sentences) of how the game is played.
9. **Neatness:** Your project should be attractive, neat, easy to read and colorful. Make a student want to pick your game above any other game on the shelf.
10. **Do NOT put your name on the game**. Put your rubric with your name on it, inside your box.
11. **AIG/Nurture students ONLY**: create 10 additional “Challenge Questions” that can be used with your game. These could be riddles, word problems, or a more advanced math concept.

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**Student/Teacher/Parent Agreement**

* I understand all aspects of the math board game project.
* I will do the board game project to the best of my ability in order to show the knowledge that I have gained about the specific topic(s).
* I have read the project rubric to make sure that I will have all required parts of the project included and correct.
* I will come to Mrs. White if I have any questions or concerns about my project at least 1 week prior to due date.
* I will turn the project in on Tuesday, December 16, 2014.

Student’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Group: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent’s Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_