**Teacher:** Mrs. Barrett

**School:** Parlin School

**Grade:** 4

**Lesson Topic:** Probability

**Curriculum Frameworks:**

Mathematics: 4.D.4

English Language Arts: 1,2,19

**Objectives:**

**Essential Question:**

What does the saying, “lucky seven” mean?

**Mastery Skills:**

Students will find the probability of rolling 2 die.

Students will list the possible outcomes of rolling 2 die.

Students will predict where to place Xs on a number line for rolling 2 die to play the Remove One game.

**Higher Order:**

How does knowing about the probability and possible outcomes of rolling 2 die make your life easier?

**Sequence of Activities:**

1. Pass out rubric and post and review objectives along with the agenda for the lesson.
2. As an activator, have students watch the BrainPop and BrainPop Jr. video clips on Probability. Then have students complete the words that come to mind when you think of probability. Share responses
3. Define probability.
4. Discuss when students might use and see probability in the world around them.
5. Explain Remove One game.
6. Have students set up and play Remove One game round 1.
7. Analyze Remove One game using analysis sheet.
8. Setup Remove One board round 2. Have students fill in at least one reason why they changed their remove one board round 2 and one way how they changed their remove one board round 2. Discuss changes.
9. Play Remove One game round 2. Discuss changes.
10. Have students write a complete paragraph,using a template, explaining the saying lucky seven and how knowing probability makes their life easier.
11. Have students post responses on Diigo.
12. Ball summarizer of one thing learned.
13. Have students fill out rubric. Collect.

**Materials:**

Rubric

Internet Access to show BrainPop/BrainPop Jr.

Activator sheet words that come to mind when you think of probability

Remove One game round 1 and 2 sheets

2 die

Paragraph template

Ball for summarizer

**Assessment:**

Rubric

Remove One Round 2 worksheet

Diigo posts

Paragraph template

**Follow-up/Extension Activities**

Continually share Diigo posts

Post probability games on Diigo

Play Numberopolis Wash ‘n Spin games on ThinkCentral on Enoboard with class

Continue various probability lessons including Rock/Paper/Scissors/, What’s in my Bag, Spinner Probability, Red Sox Combinations, Costume Combinations, Ice Cream Combinations, and Likelihood of Events

Study Island lesson and practice probability problems

Probability Assessment

Practice MCAS multiple-choice and open-response probability questions

Edit and write final copy of paragraphs

Share paragraphs