Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table# \_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_

**10.1A Outcomes and Events\_Classwork**

*Objective: Students will be able to construct viable arguments and critique the reasoning of others MP3.*

*CC.SS.7.SP.5 identify and count the outcomes of experiments.*

*HW: textbook\_pg 404\_#3-11 ALL (copy the problem before answering)*

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| --- | --- | --- | --- |
| **WARM-UP**   |  |  |  | | --- | --- | --- | | 1. Evaluate: | 1. Evaluate: | 1. What makes a game fair? | |

**Rock Paper Scissors Experiment**

|  |
| --- |
| 1. How many possible results (outcomes) are there? Explain your reasoning. 2. Play Rock Paper Scissors 20 times. Tally your results in the table. 3. Of the possible results, in how many ways can:   Player A win? Player B win? The players tie?   1. Does one of the players have a better chance of winning than the other player? Explaining your reasoning. 2. Is this a fair game? |

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| --- | --- | --- | --- |
|  | |  |  | | --- | --- | | **HEADS** | **TAIL** | |
| **Experiment:** | |
| **Possible Outcomes:** | |
| **Event:** | |
| **Favorable Outcomes:** | |

|  |
| --- |
| **Spinner Problem**  **1.**  **2.**  **3.**  **4.** |
| **Marble Problem**  **1.**  **2.**  **3.**  **4.** |
| **Letters Problem**  You randomly choose a letter from a hat that contains the letters A through K.   1. What are the possible outcomes? 2. What are the favorable outcomes of choosing a vowel? |