Password Duel

Name: _____

Student worksheet

Partner's name: _____

Date: _____

Directions: Follow the directions below to complete the activity.

1. Make a prediction

a. Do you think one type of password will be easier to guess? Circle your prediction.

   a) number only (0-9)

   b) number or letter (0-9 or a-z)

   c) both will be about as easy to guess

b. Explain your prediction in your own words.

2. Play the guessing game

Follow your teacher's instructions to fill in this table as you play the game.

Round	Password you thought of (write down before each round)	Which type of password was guessed first? (circle one)
1		number only | number or letter
2		number only | number or letter
3		number only | number or letter
4		number only | number or letter
5		number only | number or letter
6		number only | number or letter
7		number only | number or letter
8		number only | number or letter

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Name: _____

Directions: Answer the questions below about the activity.

3. Analyze data collected by the whole class

a. Your teacher will tally data for the whole class on the board showing how many times each type of password was guessed first. Record that data here.

Number only _____

Number or letter _____

b. Do the results show that one type of password was harder to guess than the other? If so, which one? How does your data show this?

c. How do these results compare to your prediction from step 1?