



Scrambled Eggs Activity

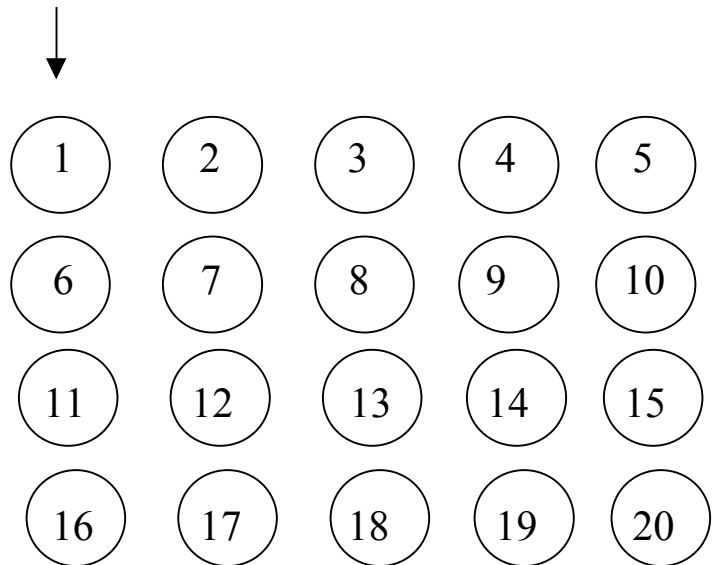


The “sunny side up” of the activity: Completion in the following activity while you are playing the role of the Egg Code Cracker will earn you 4 bonus points on the next quiz.

Name: _____

Below are two charts that must be completed. After each guess (5 total), fill in the appropriate information

- With the crayons provided, recreate what the first column of the bulletin board looks like in the chart below.



- You may have come to the conclusion that each guess generally leads to some new facts. Fill in the chart below by placing an ‘X’ when you can conclude that a color is definitely not in a certain position.

	Pink	Purple	Green	Yellow
○				
○				
○				
○				

If you need more room, continue on the back and draw an arrow so I don't miss any of your answer.

3. In a paragraph, describe a strategy you used to make one of your guesses throughout the game and include whether your strategy worked or not. Be sure to write complete sentences so that anyone could read your response and have an understanding of what you did.

4. What is the total number of possibilities the Egg Code Maker could create? Show your work.

5. Ms. Merkel decides she wants to change the game so that the Egg Code Maker can use the same color more than once, or not at all. What is the total number of possibilities the Egg Code Maker could create with Ms. Merkel's change assuming that it is a 4 egg code again?

6. Scrambled Eggs' rules change as stated in #5. Ms. Merkel realizes she's going to need more paper plate eggs, but isn't sure how many. She decides to ask her class how many paper plate eggs of each color she would need to have available for the Egg Code Cracker to ensure there was enough, given that the board is the same dimensions (ie. 4 rows, 5 columns). A very anxious Randy shouts out "I know! I know! You need 20!" Write a response in which you either support or defend Randy's answer.

Final Note: First off, kudos to those who cracked the code in 5 guesses or less! For those of you who did not crack the code.....it's all right! You only got to try 5 out of (answer to #4) possibilities!