## Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Lesson 1: Face Matching with the Naked Eye**

Most people think they are very good at seeing through another person’s disguise. They think that some hair coloring and use of makeup wouldn’t keep them from recognizing a person. How good do you think you are at recognizing a person wearing a disguise?

**Doing the Science**

1. Start the Face Recognition Simulation by clicking on the “Sim” tab.

2. Carefully study the face in Box 1 on the left of the screen.

3. Now move your attention to the face in Box 2 on the right side of the screen.

4. After you study this face, circle “Match” in Table 1 if you think that the face in Box 1 is the same person as the face in Box 2 (in disguise). Circle “No match” if you believe the faces are of different people.

5. Click the “Change Image” button at the bottom of Box 2.

6. Click on Face 2 in the area in the upper-middle of the screen.

7. Carefully study Face 2 in Box 2, comparing it to the original face in Box 1. Select Match or No match in Table 1 as before.

8. Click on Face 3 in the area in the upper-middle of the screen.

9. Carefully study Face 3 in Box 2, comparing it to the original face in Box 1. Select Match or No match in Table 1 as before.

**Table 1.**

|  |  |  |
| --- | --- | --- |
| **Faces** | | |
| Box 1 Face and Box 2, Face 1 | Match | No match |
| Box 1 Face and Box 2, Face 2 | Match | No match |
| Box 1 Face and Box 2, Face 3 | Match | No match |

**Do You Understand?**

1. Which face in Box 2 most closely matched the face in Box 1?

2. What are some limitations of the face matching system you used in this simulation?