Scanning Electron Microscope Outreach Program

Directions: Read each statement carefully. Select the choice that best answers each question. Place the letter of your selection in the blank next to the question number. Do your best!

- _____1. How does the eye see an object using light?
 - A) Light passes through the object.
 - B) Light bounces off the object and hits the eye.
 - C) The object glows and gives off light on its own.
 - D) Electricity in the object emits light.

2. How does a Scanning Electron Microscope (SEM) make images of objects using electrons?

- A) Electrons pass through the object
- B) Electrons collide with the object and give off visible light to make a normal picture
- C) Object glows and gives off electrons on its own
- D) Electrons bounce off the object and hit the detector

For the next questions, rank how strongly you agree or disagree with the statement.

_____ 3. I'm thinking of choosing science as a career.

- A) Strongly agree
- B) Agree
- C) Neither agree nor disagree
- D) Disagree
- E) Strongly disagree

_____4. I enjoy learning new things about science.

- A) Strongly agree
- B) Agree
- C) Neither agree nor disagree
- D) Disagree
- E) Strongly disagree

_ 5. Science concepts are valuable because they will help me in the future.

- A) Strongly agree
- B) Agree
- C) Neither agree nor disagree
- D) Disagree
- E) Strongly disagree

____ 6. I enjoyed today's activity and found it interesting.

- A) Strongly agree
- B) Agree
- C) Neither agree nor disagree
- D) Disagree
- E) Strongly disagree

This test is not for a grade, and taking the test is voluntary.

Matching. Match the length on the left with an object that is approximately that size on the right.

- 1. 1 meter
- 2. 10 centimeters (1 decimeter)
- 3. 1 centimeter
- 4. 1 millimeter
- 5. 1 micrometer (1 millionth of a meter)
- 6. 10 meters
- 7. 100 meters
- 8. 1 kilometer (1000 meters)
- 9. 1 megameter (1,000,000 meters)

- A. Length of the palm of your hand
- B. Length of a football field
- C. Length of a school bus
- D. Diameter of the moon
- E. Distance a person runs in 10 minutes
- F. Width of letter in 10 point font type
- G. Width of a human hair
- H. Height of a 6 year old child
- I. Width of a pinkie finger

Any comments or suggestions? Tell us what you think here.