## 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!
$\qquad$ 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.
$\qquad$ 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.
$\qquad$ 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
$\qquad$ 4. I enjoy learning new things about science.
A) Strongly agree
B) Agree
C) Neither agree nor disagree
D) Disagree
E) Strongly disagree
$\qquad$ 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
$\qquad$ 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
A. Length of the palm of your hand
2. 10 centimeters ( 1 decimeter)
B. Length of a football field
3. 1 centimeter
C. Length of a school bus
4. 1 millimeter
D. Diameter of the moon
5. 1 micrometer ( 1 millionth of a meter)
E. Distance a person runs in 10 minutes
6. 10 meters
F. Width of letter in 10 point font type
7. 100 meters
G. Width of a human hair
8. 1 kilometer ( 1000 meters)
H. Height of a 6 year old child
9. 1 megameter ( $1,000,000$ meters $)$
I. Width of a pinkie finger

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

