

MCAS OPEN RESPONSE #5: ELECTROMAGNETISM

A student rubs a balloon on her hair and the balloon acquires a negative charge.

- a. Explain why the balloon acquires a negative charge.
- b. After the balloon is rubbed on the student's head, the student's hair stands out from her head. Explain why this happens.

The student then brings the negatively charged balloon near another balloon that was charged in the same way.

- c. Describe and explain what happens when the negatively charged balloon is brought near another negatively charged balloon.