

Name _____ Block _ Date _____

Genetic Interactives Discussion Questions

- Complete each simulation **USING INTERNET EXPLORER** from the links on majorwester.weebly.com.
- Answer the questions for each simulation before moving onto the next simulation.

Exploring the Genetic Code

Describe how much of our DNA actually codes for producing a protein. Explain your answer.

Describe at least **two** possible applications of DNA sequencing and the Human Genome Project.

Genetic Engineering

Explain what is special about the genetically-modified plant at the end of the simulation.

Describe at least **two** possible applications (uses) of genetic engineering.

Cloning

Identify which adult mouse (or mice) is related to the baby mouse, and explain your answer.

Describe at least **one** possible application of cloning.

DNA Fingerprinting

Identify which person stole the NOVA lollipop, and explain your answer.

Describe at least **two** possible applications of DNA fingerprinting.

Karyotyping

Identify whether the karyotype belongs to a boy or a girl, and explain your answer.

Describe at least **two** possible applications for karyotyping.