

# Genetics Questions

name:

Answer the following questions regarding genetic issues. As you answer these questions, be sure to back up your opinions with **reasons** why you believe as you do. Don't just say "Yes" or "No". **Explain your opinions.** Discuss the questions with your parents and have them sign the paper along with your name to get a "4" in work ethic!

1. Should we save DNA from all endangered species and clone them back into existence again if they become extinct (like Jurassic Park)? Why/why not?

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2. Should foods that are genetically engineered be labeled so you know they were? Why/why not? Would you buy them anyway?

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3. If the technology allowed parents to select specific traits for a developing fetus (like tallness, athleticism, sex of child, etc.) would you use this technology to create the "perfect" child? Why/why not?

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4. There is currently a law banning the cloning of humans. Do you agree with this law or do you think the law should change to allow human cloning? Why/why not?

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5. Think of one of your personal traits. Is this trait from "nature" or inherited in your genes, or is this trait from "nurture" or what you have experienced or learned. Explain your trait, how you got it, and what you think about "nature vs. nurture."

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6. Suppose you had a mole removed and scientists used the mole for research. What if they discovered that you had a unique gene combination that prevented skin cancer and they became rich off a cancer-prevention drug they made with it? Is that okay, or should you get \$\$\$, too?

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7. We have the technology to identify certain genes for diseases like Cystic Fibrosis (see pp. 117-121 to review genetic diseases) and breast cancer, which are costly to treat and may be deadly. If a person was a carrier of a gene for one of these diseases, should they be prevented by law from reproducing? Why/why not?

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8. DNA is used for identifying genetic diseases as well as identification in many crimes (see pp. 130-131). Should all people be required to submit DNA for physicians, law enforcement, and the government to use? Why/why not? Should anyone have open access to your DNA if they want it?

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