

Evaluate: CSI and Frankenfood

THE ACTIVITY

1. There are a series of 8 stations with articles and/or videos. Make your way through each station and answer the questions below based on your reading/viewing.

FOLLOW UP QUESTIONS

Answer the following questions in your journal using complete sentences.

Station 1 - FOOD: Genetically Modified Food (pro) (1 article, 1 video: GM Documentary Pro)

1. Do we need genetically modified food? Why or why not?
2. What are the health benefits of GM food?
3. What is an herbicide?
4. What are the benefits of having plants that cannot be killed by herbicides?
5. What is the best argument (reason) for genetically modified foods?

Station 2 - FOOD: Genetically Modified Food (con) (1 article, 1 video: GM Crops)

1. Do we need genetically modified food? Why or why not?
2. What are the health risks of GM food?
3. What is a herbicide?
4. What drawbacks of having plants that cannot be killed by herbicides?
5. What is the best argument (reason) against genetically modified foods?

Station 3 - ID: Obtaining DNA to Solve Crimes (2 articles, 2 videos: DNA Database, Senator Seward)

1. What is privacy?
2. What is the right to privacy?
3. What does is the difference between being charged with a crime and convicted of a crime?
4. Is DNA private property?
5. When is DNA not private property? (explain)
6. When should police be able to collect DNA?

Station 4 - MEDICINE: Vaccines (1 article)

1. What is a vaccine?
2. Why do we need vaccines?
3. How do people normally get vaccines?
4. What is the benefit of growing plants with vaccines in them?
5. Why do you think 10% of people may not respond to the Hepatitis B vaccine?

Station 5 - MEDICINE: Gene therapy (3 articles, 2 videos: Gene Therapy, Science in Action)

1. What is gene therapy?
2. How does it work?
3. What could be a negative consequence of gene therapy?
4. What are the benefits of gene therapy?
5. Why is gene therapy easier to use for curing sight disorders (like color blindness) than curing a disease like cancer?

Station 6 - MEDICINE: Gene therapy (Repeat of Station 5)

Station 7 - MEDICINE: Pharmacogenomics (1 article, 2 videos: Personalized Medicine, Personalised Medicine)

1. What is pharmacogenomics?
2. What are two reactions people can have to medications because of their genes?
3. How do doctors figure out medication choices for patients today?
4. How will knowing DNA sequence help doctors prescribe medications?

Station 8 - MEDICINE: Designer Babies (1 article)

1. What did the two British couples do to prevent their children from getting breast cancer?
2. The couple had to get the approval of the HFEA before they could go ahead. Why did the HFEA have trouble giving approval?
3. How many years away could we be from being able to identify a person's full genetic code?
4. What could hopeful parents do if they knew the full DNA sequence of embryos?
5. Is modifying genetic sequence, or choosing the best embryo playing "God"? Why or why not?