Reproduction Research Topics

Science 9 – Ms. McDade

1. Cloning and the plants and animals we eat
2. GMOs and the plants and animals we eat
3. Bringing endangered or extinct species back to life with cloning
4. Creating human organs from donor cells using cloning
5. Cloning humans
6. Patenting genetic material
7. Selecting against embryos carrying genetic diseases
8. Types of genetic disorders
9. Connection between mental illness and genes
10. Grafting – the tree of 40 fruit
11. Fraternal vs. identical twins
12. Cancer and the cell cycle
13. Immunity and DNA
14. Agriculture and vegetative propagation
15. Egg and sperm production
16. Fetal development and teratogens (alcohol, radiation, etc)
17. The perfume industry and pheromones
18. Sexual reproduction specifics in other animals
19. The discovery of DNA
20. Immortality and telomeres
21. Bacterial resistance to antibiotics
22. The risks of sex
23. DNA use in forensic science
24. Diseases, syndromes and the human genome
25. Genes and what they code for
26. The relationship between parental age and birth defects
27. Infertility – reasons and technologies
28. Gene and chromosome mutations
29. Other?

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| My Topic: |
| Where will I get my information?: |
| How will I present my information?: |

Description:

* Pick a topic from the above list and research it using **three** credible and reliable sources.
* Record your research in written or typed form.
* Compile your research into a poster that includes
  + A title
  + Your name
  + Text that summarizes your topic
  + Images (graphs, illustrations, photos)
  + A list of sources
  + Three questions for further inquiry on this topic
  + An interactive feature

Assessment:

* You will be assessed on your ability to evaluate and communicate information in addition to your ability to question using the following rubric

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| --- | --- | --- | --- | --- |
| Competencies | Not yet meeting Expectations | Approaching Expectations | Meeting Expectations | Exceeding Expectations |
| Evaluation | -Less than three sources of information were used and information is not summarized in student’s own words | -Three sources of information were used but summarized text shows limited understanding | -Three sources of information were used and student clearly understands the topic | -Three sources of information were used and student demonstrates mastery in understanding topic |
| Communication | -Project lacks the text and images necessary to demonstrate understanding | -Text and images communicate some ideas with some clarity | -Text and images communicate ideas with clarity | -Text and images communicate ideas clearly and leave the reader wanting more |
| Questioning | -Questions for further inquiry are unrelated to the topic | -Questions for further inquiry are basic but lack depth | -Questions for further inquiry are related to the topic and show interest in the topic | -Questions for further inquiry are complex and demonstrate intellectual curiosity |