Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PBS-NOVA: Life’s Greatest Miracle Movie Worksheet Please answer the following questions as you learn about the “miracle of life”

1. What is DNA “very good” at?
2. What risk is there for a species that only reproduces by cloning? How many sperm are produced by the average human male?
3. How many sperm are produced by the average human male?
4. How many chromosomes come from each parent?
5. What happens to the genes when two chromosomes “embrace”?

1. What is the advantage of diversity within a species?
2. When does a human female produce her eggs?
3. What do the support cells do with the egg?
4. Inside the fallopian tube, how long does the egg have to get fertilized? What happens if it doesn’t?
5. What are some changes that happen in the body when “love is in the air”?
6. What is the immediate danger which confronts sperm in the vagina?
7. What are some ways the women’s body helps control the success of the sperm?
8. What does the sperm need in order to be allows through the egg’s zona?
9. What percent of fertilized eggs fail to develop?
10. What is happening as the fertilized egg moves down the fallopian tube toward the uterus
11. What happens if the cell cluster splits into two groups?
12. After fertilization, how long does it take for the cell cluster (blastocyst) to arrive in the uterus?
13. What risk does the blastocyst face after it attaches to the uterus?
14. Gastrulation, when the cells organize themselves into an embryo occurs 2 weeks after conception. What do the 3 layers of cells go on to form?
15. Endoderm (Lower) -
16. Mesoderm (Middle) -
17. Ectoderm (Top) -
18. How could you tell the sex of a seven-week-old embryo? Look at the chromosomes -
19. When is an embryo called a fetus? How big is a fetus? How much bigger will the fetus grow by the time of birth?
20. Where specifically does the fetus get its nutrients? How does it get its nutrients?
21. What is the main job of the fetus during the last trimester? What does myelin help?
22. During the course of a pregnancy, by how much has the mother’s blood supply increased?
23. What is happening in the female body during pregnancy to aid in delivery?