

Human Reproduction Webquest

Click through the following webquest

& complete all offline questions on a separate piece of paper.

If any of the videos don't work try and find alternative animations by using Google

Part I: The Benefits of Sexual Reproduction

- A. Go to the following webpage: http://www.pbs.org/wgbh/nova/miracle/program_adv.html
- B. Click on the first link: passing on your DNA and watch the movie.
 1. Why is sexual reproduction important?
 2. What is the process of making gametes called?

Part II: Spermatogenesis

- C. Go to the following webpage: http://www.gaw.com/bc_martini_eap_4/40/10469/2680298.cw/content/index.html
- D. Click on the first link: **spermatogenesis** and watch the entire movie.
 3. Where does spermatogenesis occur?
 4. During puberty what hormone stimulates cells to begin meiosis?
 5. How many sperm cells are created from each meiotic division?
- E. Open another window and type in the following URL:
<http://highered.mcgraw-hill.com/olc/dl/120112/anim0043.swf>
- F. Watch the animation. Draw the process of spermatogenesis. *Use the image and word bank below to help you!*

Spermatogonia

Mitosis

Meiosis I

Meiosis II

Primary Spermatocyte

Secondary Spermatocytes

Spermatids

Differentiation

Sperm Cell



- G. Complete the following questions / matching section. Continue to watch the animation as needed so that you can do this.
 6. Are spermatogonia diploid or haploid cells?
 7. After the first division, mitosis, one cell remains a spermatogonium while the other continues on to form sperm. Why do you think it might be important to have one cell remain as a spermatogonium? (HINT: Men start making sperm at puberty and continue for their entire lives!)
 8. How many chromosomes are in a sperm?
 9. What is differentiation?

Answer Keys To Human Reproduction Webquest

Jessica J Manson



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