

11. Recently in the media news there has been a lot of discussion about “stem cells”. Click here <http://www.dnalc.org/stemcells.html>
12. What is a blastocyst?
13. How many cells does it have?
14. On the next slide what does it say about the potential of stem cells?
15. Where are the cells placed to develop?
16. Look at the last slide. What do they hope these cells can be used for?
17. Here is another [picture of a blastocyst](#) the pink cells are the stem cells.
Where are they located?
18. This shows you [how big](#) it is. Compare to the dime.
19. How many days after [fertilization does the blastocyst implant](#)?

20. Look at the following about cancer ;
http://www.pbs.org/wgbh/nova/cancer/grow_flash.html On the second to last slide it talks about why cancer cells are so dangerous. What does “metastasize” mean ?
21. And why is it so dangerous?
22. Here are some more links you can observe on these topics; (just for fun)

Photos of Lilly meiosis stages;

23. Compare them to what you saw under the microscope (if you have completed the lab – or observe them – it will help you on the lab coming up soon.

[Lilly Meiosis 1](#)

[Lilly Meiosis 2](#)

[Lilly Anther \(pollen grains to contain sperm cells\)](#)

[Lilly Ovary \(to become egg cells or ova\)](#)

** How do the Lilly sperm cells and egg cells compare?

Check out the following videos:

24. [Meiosis](#)

25. [Mitosis](#) (Click on the video that shows a comparison between Mitosis and Meiosis) Using all we have learned, list at least 3 differences between Meiosis and Mitosis – in well written “high school sentences”!