

Open up the video: <https://www.youtube.com/watch?v=a5SB9t7m0Vs>

During Viewing

- **START** the video.
- **PAUSE** the video at 3:13 minutes, after Dr. Levy discusses the method used for testing embryos for genetic disorders.

Answer the following questions IN YOUR OWN WORDS on a piece of lined paper, you must write the question for full credit:

1. Do you think testing embryos for genetic conditions is a good idea?"
2. What are some examples of conditions or disorders an embryo might carry?
3. Are all conditions equally severe? Are some conditions more severe than others?
4. What do you think are some genetic conditions that are very severe? ...less severe?
5. What choices are available if the embryo has a genetic condition?

- **RESUME** the video.
- **PAUSE** the video (6:50 minutes into the video) after the segment with Dr. Fukuyama

Answer the following questions:

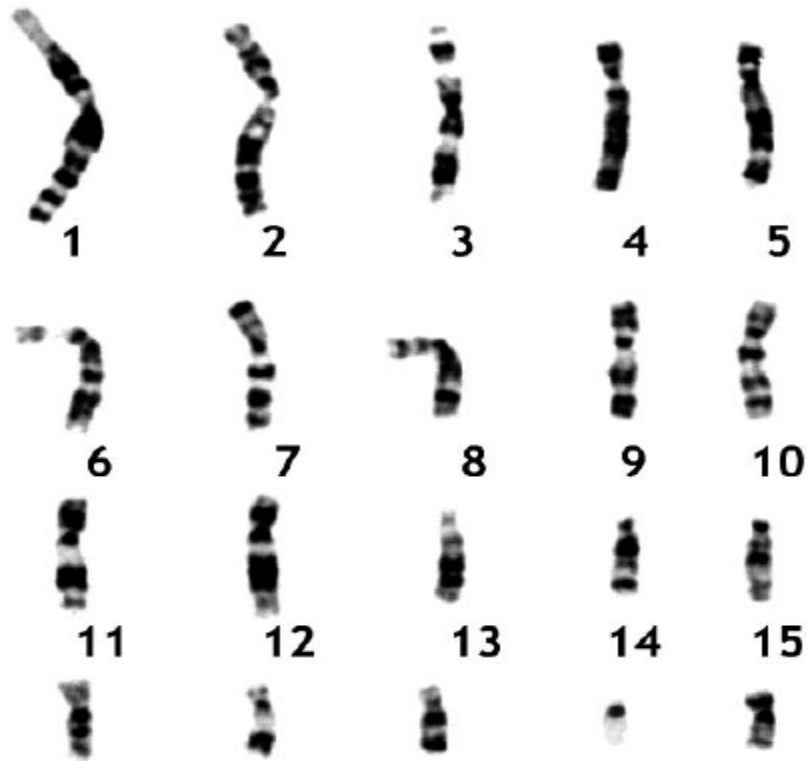
6. Do you think sex selection is an acceptable reason for selecting an embryo?
7. Do you think there should be guidelines for making these and other decisions about the selection or termination of embryos?
8. What kind of guidelines might distinguish between selections for 'good' reasons versus 'bad' reasons?
9. Who decides what the 'good' and 'bad' reasons are?

- **RESUME** the video and play to the end.

After Viewing

10. Explain that one way Dr. Levy's lab can tell if an embryo has a genetic disorder is to examine the pairs of chromosomes from one of the embryo's cells through a process called *karyotyping*. Tell your students that today they are going to observe chromosomes and pair them up, just as a geneticist would, to determine if an embryo has the expected number of chromosomes.
11. Complete a karyotype. The karyotypes needs to be cut out and glued next to the matching chromosome.

Paste chromosomes here with their match



Cut out chromosomes here

