

UNIT 3 FORMATIVE ASSESSMENT #10: Karyotypes

Objective 5. I can predict what will happen to the cell when a phase in the cell cycle is skipped or incorrectly functions, including cancer in mitosis and non-disjunction in meiosis.

Success Criteria Self Assessment:

Use the descriptions below to determine your personal level of understanding for this learning objective.

Circle the level that you are at today.

4	Confident understanding I could teach this to someone who was absent today
3	Clear understanding I can explain my thinking
2	Some understanding but also some confusion I think I know the <u>answer</u> but I can't explain why
1	I do not know how to do this work yet

1. Look at the diagram below.

- Use a **highlighter** to identify where **non-disjunction** took place.
- Explain, in the empty space to the right of the diagram, what effect non-disjunction will have on the egg or sperm cells formed at the end.
 - What will happen to the amount of DNA in the eggs or sperm?
 - How will non-disjunction affect the cells' abilities to do their work? Why?

