

Mitosis in Cells

Name: _____

B2.1 & 2.2

/21

Problem:

How do cells undergoing mitosis appear in a light microscope?

Materials:

- Microscope
- Pencil
- Ruler
- Onion Root Tip Slide

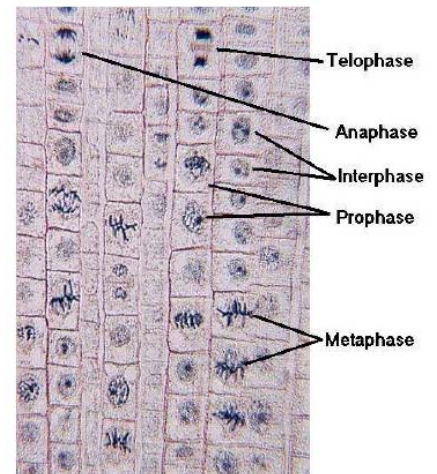
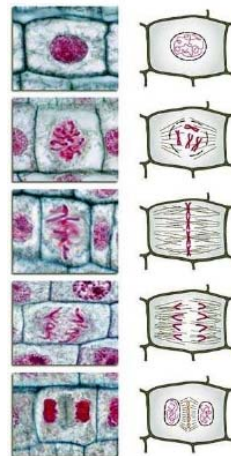


Procedure:

1. Put the slide on the microscope and focus on the cells just **behind the tip** using **LOW** power.
2. Change to **medium** power and focus using the fine adjustment knob.
3. Change to **high** power and focus using find adjustment knob
4. Find cells undergoing mitosis. You may have to move the slide to find every stage.
5. Take pictures with the iPad through the eyepiece.



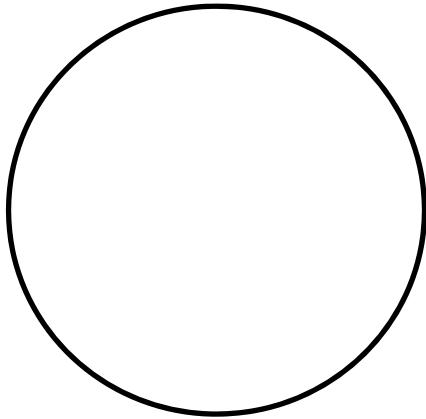
Mitosis in Onion Root Tips



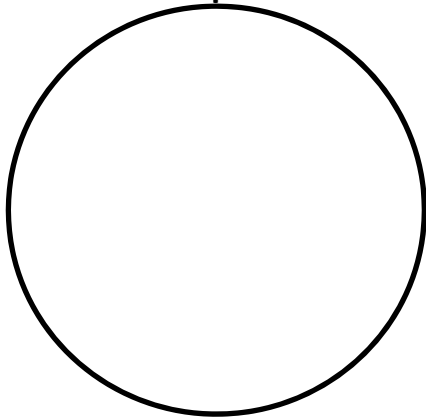
Analysis:

1. What stage of the **cell cycle** did you see the most? (1) _____
2. List 3 parts of the cell you could see using the microscope. (3)

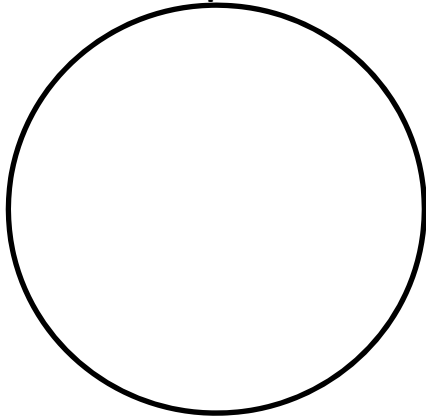
Prophase



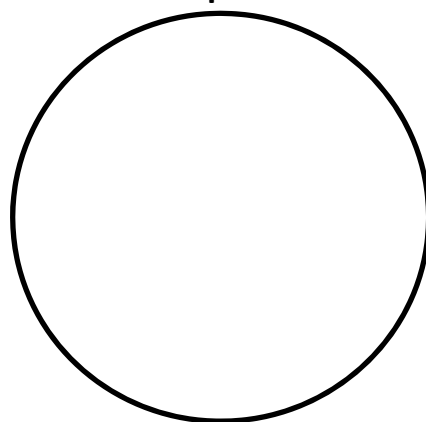
Metaphase



Anaphase



Telophase



Name: _____

Date: _____

- Drawing is done in pencil
- Steady clear lines (no sketching)
- Stippling used for shading (no colours or solid pencil)
- Only main details are included
- Labels are neatly printed to the right of the diagram
- Lines for labels are drawn using a ruler

①②③ Overall quality of drawings

Correct stages & labels drawn (8)

Total /17