

Science 9 – Chapter 2.1 – Biology: The Importance of Cell Division

1. Complete section 2.1 of the Chapter 2 worksheet booklet (pages 21 to 23)

2. What is a “cell” in a living organism?

3. What would happen if cell division stopped happening? Create a **DESCRIPTIVE short story or comic** (like a short graphic novel) about a situation in which cell division stopped. Include in story the impact of the **lack of growth, lack of ability to repair, and lack of ability to reproduce.**

- For example, it could be a person or animal who experienced some sort of trigger that stopped their cell reproduction – what effects would this have on their body? On their life?
- Or, it could be a plant whose cell reproduction mechanisms got switched off – what effects would this have on the plant? How might this impact the people and animals that use the plant? (e.g. for food, shelter, soil stability, etc)

The Importance of Cell Division

Key Question: What are the functions of cell division?

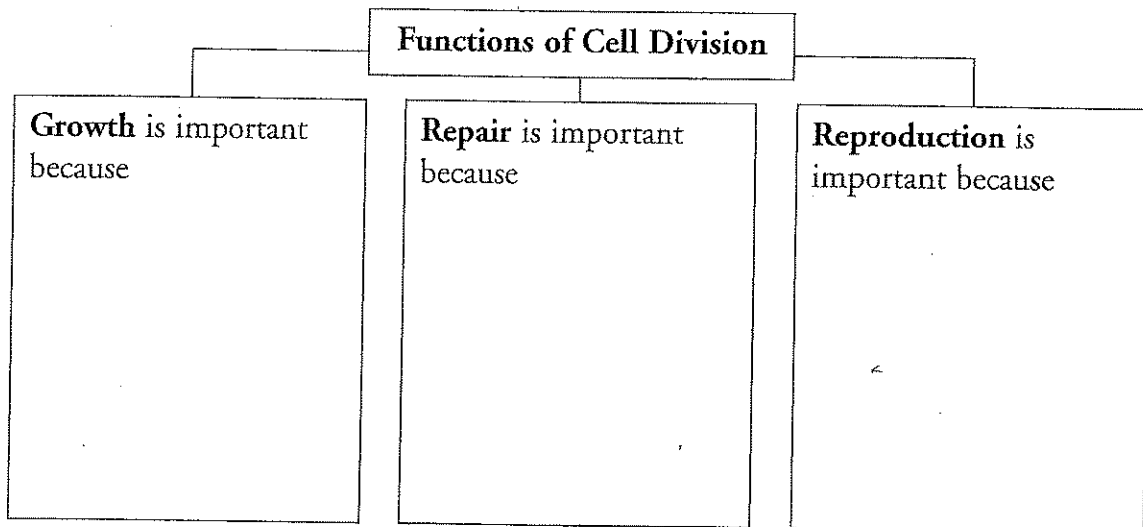
BEFORE YOU READ

- Preview Section 2.1. Look at the headings. Read the first and last sentence in each paragraph. Study the figures and read the captions. As you preview the section, complete the chart below.

What information is provided?	What questions do you have?
Figure 1:	
Figure 2a:	
Figure 2b:	
Figure 3:	

WHILE YOU READ

Use information from the section to complete the following graphic organizer. In each box, explain why each function is important to cell division.



Name: _____ Date: _____

2.1

The Importance of Cell Division (continued)

AFTER YOU READ

- In the space below, make notes or a sketch with labels of what you have learned about the importance of cell division.

- Use your notes or sketch to explain to another student why each of the three functions is important to cell division.

Try This: From One Cell to Trillions

Refer to pg 37 of Science Probe 9

- complete the chart below

- answer Questions A, B + C (pg 37 of Text book)

Number of divisions	Number of cells
0	1
1	2
2	4
3	8
4	16
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	

Number of divisions	Number of cells
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	