## Cancer: Cell Division Going Wrong

## **Expectations**

B1.2 assess the importance to human health and/or society of medical imaging technologies

4. a) Why might it be easy to overlook cancer in its early stages?

B1.3 describe public health strategies related to systems biology

B2.5 investigate the rate of cell division in cancerous and non-cancerous cells, using pictures, videos, or images

Part A: Read pages 48-55 in your text and answer the following questions in full sentences. Your mark will be reduced if you

u do	not.
1.	How is the behaviour of cancer cells different from that of normal cells?
2.	A) Is cancer inherited, caused by environmental factors or both? Explain.
	B) Can you catch cancer from a person who has cancer?
3.	A) What is a carcinogen?
	B) Name three known carcinogens. If you can link the carcinogen to the cancer for some, that is best.

b) Briefly describe the cancer screening a woman should do.	
a) Dui affer da sariba tha san san san san san sharib da	
c) Briefly describe the cancer screening a man should do.	
d) Briefly describe the cancer screening anyone should do.	
5. a) List 5 imaging techniques that can diagnose cancer.	
b) Briefly describe 2 of them.	
6. Briefly describe the three main conventional methods of treating cancer.	

Criteria	Level 1	Level 2	Level 3	Level 4
K & U	Demonstrates limited	Demonstrates some	Demonstrates	Demonstrates a
	understanding of	understanding of	considerable	thorough
All questions must be	cancer and cancer	cancer and cancer	understanding of	understanding of
attempted for best	treatment	treatment	cancer and cancer	cancer and cancer
marks			treatment	treament

7. Why might a doctor be concerned to find cancer cells in a patient's blood?

8. Identify at least three simple lifestyle changes that <u>you</u> can do to reduce your chance of developing cancer.

9.	Why might there be a risk of cancer recurring, even when surgery is performed to remove a malignant tumour?

Part B: Using the Microviewers, review the Cancer Slides and answer the following questions.

1. What did you observe about the organization of the normal cells compared to the cancer cells?

2. Describe any differences between the size and shape of the two types of cells.

Criteria	Level 1	Level 2	Level 3	Level 4
Application	Demonstrates limited	Demonstrates some	Demonstrates	Demonstrates a
All questions must be attempted for best marks.	understanding of how cancer cells behave and affect us.	understanding how cancer cells behave and affect us.	considerable understanding of how cancer cells behave and affect us	thorough understanding of how cancer cells behave and affect us