

B2 – cell division	
1. Where are the chromosomes found in a cell?	In the nucleus.
2. Name the chemical that chromosomes are made from.	DNA
3. What do chromosomes carry?	genes
4. By which process does the body make new cells for growth or replacement?	mitosis
5. How many daughter cells are produced from one parent cell during mitosis?	2
6. What is a stem cell?	A cell that is undifferentiated. It has not developed to have a particular function.
7. Give 2 places where human stem cells can be taken from.	Bone marrow and embryos
8. Where do we find stem cells in plants?	In meristems
9. Give 2 reasons why stem cells in plants are useful.	They can be cloned quickly to: 1. Produce rare species 2. To produce large numbers of crops with special features such as resistance to disease.
10. Where do the stem cells in therapeutic cloning come from?	Embryos produced with genes that are the same as the patient, so they are not going to be rejected by the patient's body.
11. Name 2 conditions that stem cells could help to treat.	1. Paralysis 2. diabetes
12. Give an ethical reason why people may be opposed to the use of stem cells.	People think it is 'playing god'. They may object because of their religious views.
13. Why might stem cell treatment be medically unsafe?	It may pass a viral infection onto the patient.