**Key Questions: Mitosis and the Cell Cycle**

**Explain the significance of cell division, with reference to the basic relationship between genes and proteins (i.e. genes code for proteins)**

1. Why do cells need to undergo cell division?

2. Why is it important that cells undergoing mitosis to produce genetically identical daughter cells ?

**Describe in sequence the features of the cell cycle, including interphase, mitosis and cytokinesis**

**1. List the stages of the cell cycle in order and the main events that occur during each stage.**

2. What are two differences in the cell cycle between plant and animal cells.

3. How are daughter cells similar to the parent cells following cytokinesis.

4. What are two processes that occur during interphase that are necessary for nuclear division to take place during mitosis?