** A level Year 1** Eduqas Component 2

**Genetic information is copied and passed on to daughter cells**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | R | A | G |
| 1 | interphase and the main stages of mitosis |  |  |  |
| 2 | the significance of mitosis as a process in which daughter cells are provided with identical copies of genes and the process of cytokinesis |  |  |  |
| 3 | the significance of mitosis in terms of damage and disease: repeated cell renewal, damage repair and healing and unrestricted division leading to cancerous growth |  |  |  |
| 4 | the main stages of meiosis (names of subdivisions of prophase 1 not required) and cytokinesis |  |  |  |
| 5 | the differences between mitosis and meiosis, including that mitosis produces genetically identical daughter cells whereas meiosis produces non-identical daughter cells |  |  |  |

**SPECIFIED PRACTICAL WORK**

Scientific drawing of cells from slides of root tip to show stages of mitosis

Scientific drawing of cells from prepared slides of developing anthers to show stages of meiosis