A picture containing text

Description automatically generated **STOP MOTION ANIMATION ASSESSMENT**

**Curricular *big idea*:**

* cells are derived from cells

**Curricular *competencies* targeted:**

* Formulate physical models to describe a phenomenon
* Communicate scientific ideas, claims, information for a specific purpose and audience, using appropriate scientific language, conventions, and representation

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Emerging | Developing | Proficient | Extending |
| **INTERPHASE**  **G1 phase:**   * growth of cell * some organelles doubled   **S phase:**   * DNA replicates   **G2 phase:**   * continued cell growth * remaining organelles doubled |  |  |  |  |
| **PROPHASE**   * chromosomes distinct * nucleolus disappears * centrioles separate and start moving * microtubules begin to form * nuclear membrane disappears * chromosomes attach to the spindle fibres at their centromeres |  |  |  |  |
| **METAPHASE**   * chromosomes connected to spindle fibers at centromere * centrioles at opposite poles * chromosomes line up at center of cell. |  |  |  |  |
| **ANAPHASE**   * chromatids pulled to opposite poles |  |  |  |  |
| **TELOPHASE**   * One complete set of chromosomes at each pole * Spindle fibres begin to disappear * Nuclear membranes forms * nucleoli appear |  |  |  |  |
| **CYTOKINESIS**   * The two nuclei are separated into two identical daughter cells |  |  |  |  |
| **Competency Connection:**   * The big idea that “cells are derived from cells” was clearly communicated |  |  |  |  |