 **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

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|  | 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
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