Meiosis Stop-Motion Animation

PreIBSc9 - Spindlove

A picture containing text, equipment

Description automatically generated

**Learning Task: Create a stop motion animation depicting the production of gametes**

**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

**What to include:**

* Clearly include and represent the DETAILED events of each phase, starting from one *(haploid or diploid?)* cell to four *(haploid or diploid?)* cells.
* Interphase (G1, S, G2), Meiosis I and Meiosis II
* Remember it is all a continuous process, so the stop-motion animation should reflect this as a process
* A few hints:
  + What is involved in DNA replication prior to meiosis?
  + How could you use colours to distinguish between chromosomes to help clarify homologous pairs, crossing over, and the overall result of meiosis.
  + When does crossing over happen? What does this lead to?
  + When does independent assortment occur? What does this lead to?
  + What does meiosis result in in biological males? Biological females? *Looking for not only a quantity of cell but the type of cell.*

View the instructional video clip that Mr. Carroll has *graciously* offered to share with us. This is using the IOS program **Stop Motion Studio**. You could also use other apps such as ***FlipaClip***, for example. *Note: His classes use Edmoto so disregard when he refers to that part at the end.*

*Link for StopMotionStudio instructional video:* [*HERE*](https://langleyschoolsca-my.sharepoint.com/:v:/g/personal/lspindlove_sd35_bc_ca/EZTsQU05n2FDmHkjbgS1Th4BAj1d6FvEf3NU9zU9oTGfdQ?e=68bSbY)

Create your stop motion animation using WHATEVER materials you’d like!! Be creative!

The video clip ends when Mr. Carroll starts to explain how to upload to Edmoto, which you won’t be doing. YOU will choose to export the finished movie either by:

1. uploading it to **OneDrive** and sharing the link with me, or
2. uploading it to your device and then to **YouTube** and sharing the link.

When SAVING your exported movie file, please name the file: **Name(s)\_Stop Motion**

**As always, let me know if you have questions. I can’t wait to see these!!!**