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# BASIC INFORMATION

FIRST SOME INITIAL INFORMATION ABOUT CELLS...

- EACH CELL HAS A NUCLEUS THAT CONTAINS DNA
- THIS DNA IS ORGANIZED INTO
- THESE PAIRS OF HOMOLOGOUS CHROMOSOMES ARE CALLED

**SUBMIT**

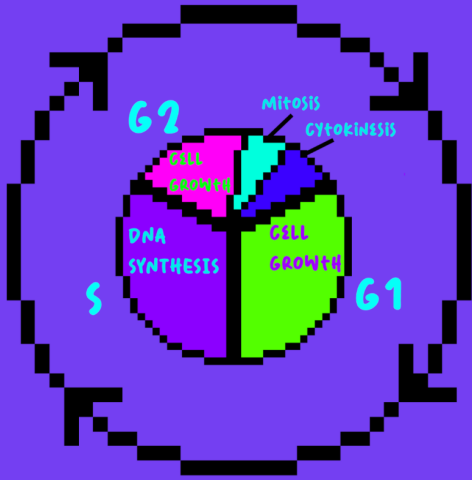
Interphase    Web - Google Drive    Answer Key - Google Docs    Basic Information    +

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# BEFORE MITOSIS BEGINS...

- CELLS SPEND MOST OF THEIR TIME IN INTERPHASE
- INTERPHASE CONSISTS OF 3 STAGES CALLED (IN ORDER)
- G1 PHASE IS WHERE THE CELL BEGINS TO GROW USING NUTRIENTS THAT WILL ALLOW SUCCESSFUL DNA REPLICATION LATER ON
- S PHASE IS WHERE THE DNA  AND THE CENTROSOMES DUPLICATES HEADING TO OPPOSITE SIDE OF THE CELL
- G2 PHASE IS THE LAST PHASE BEFORE THE CELL ENTERS CELL DIVISION.

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Prophase

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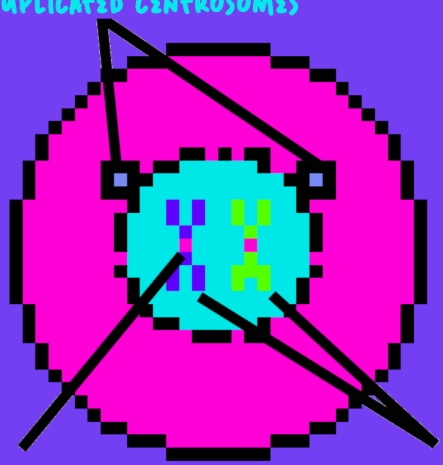
## CELL DIVISION STAGE 1: PROPHASE

LET'S BEGIN MITOSIS!!

- PROPHASE IS THE FIRST STAGE OF MITOSIS WHERE  
 the NUCLEAR ENVELOPE BEGINS TO DISSOLVE  
 AND THE **CENTROSOMES** BEGIN TO  
 MOVE TOWARD OPPOSITE SIDES OF  
 THE CELL
- THE MICROTUBULES ALSO FORM  
 AND CHROMOSOMES BEGIN TO  
 CONDENSE

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DUPPLICATED CENTROSOMES



CENTROSOMES

CHROMOSOMES

Metaphase

Web - Google Drive

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Basic Information

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## CELL DIVISION STAGE 2: METAPHASE

- METAPHASE IS THE SECOND STAGE OF MITOSIS WHERE THE  
 CHROMOSOMES AND **MICROTUBULES** ATTACH.
- IN THIS STAGE THE CHROMOSOMES ALSO LINE UP **IN THE MIDDLE** OF THE CELL

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CENTRIOLES

MICROTUBULES



CHROMOSOME

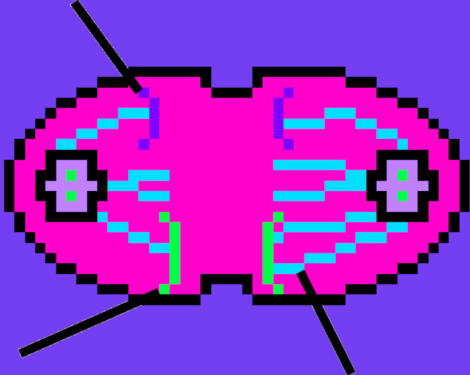
CENTROMERE

Anaphase Web - Google Drive Answer Key - Google Docs Basic Information creative.colorado.edu/~sana0236/web/mitosis\_game/mitosis\_anaphase.html

## CELL DIVISION STAGE 3: ANAPHASE

- THE DUPLICATED CHROMOSOMES FROM INTERPHASE FINALLY
- THE CENTROSOMES BEGIN TO PULL IN

CHROMOSOME



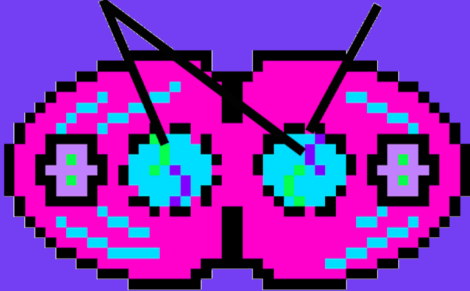
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## CELL DIVISION STAGE 4: TELOPHASE

AS THE CELL SPLITS FURTHER...

- PARTS OF THE CELL BEGIN TO REFORM SUCH AS THE
- THE CHROMOSOMES BEGIN TO

CHROMOSOME NUCLEUS



# CYTOKINESIS

- HERE THE CELL FINALLY  
DIVIDES INTO TWO DAUGHTER CELLS. ▾
- THESE CELLS ARE NOW READY TO  
ENTER INTERPHASE, GO THROUGH  
THE STAGES OF MITOSIS, AND  
FURTHER DIVIDE INTO NEW CELLS. ▾

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CENTROSOME CHROMATIN

