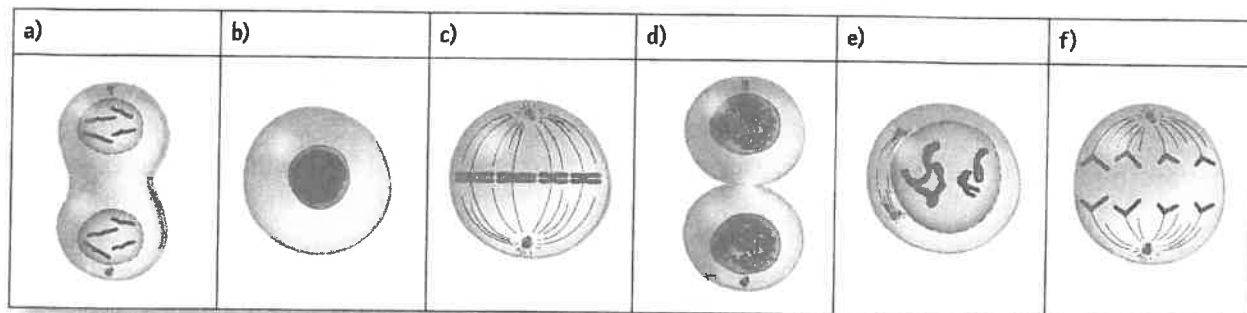


Cell Cycle and Mitosis

Use with textbook pages 25-27.

1. Label each diagram with the corresponding stage of the cell cycle: anaphase, cytokinesis, interphase, metaphase, prophase, telophase.



2. Which stage of the cell cycle is each of the following statements describing? Choose from the following list of terms: anaphase, cytokinesis, interphase, metaphase, prophase, telophase.

- a) DNA is copied _____
- b) cytoplasm divides _____
- c) spindle fibres form _____
- d) cell grows and develops _____
- e) nuclear membrane disappears _____
- f) number of organelles increases _____
- g) DNA condenses into chromosomes _____
- h) stage that makes up most of the life of the cell _____
- i) stage where the cell carries out its life function _____
- j) chromosomes line up across the middle of the cell

- k) nuclear membrane reappears around the chromosomes

- l) duplicated chromosomes have reached the opposite ends of the cell

- m) duplicated chromosomes are pulled apart to the opposite ends of the cell

DATE:

NAME:

CLASS:

TOPIC 1.2**Mitosis****BLM 1.2-6**

In the boxes below, name each phase of mitosis and describe what is happening in the phase.

A.

Name of phase:

Description:



B.

Name of phase:

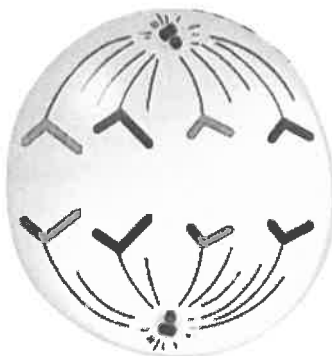
Description:



C.

Name of phase:

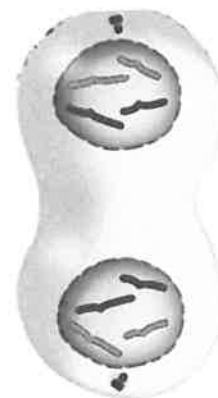
Description:



D.

Name of phase:

Description:



Activity

Mitosis Flip Book

Make a mitosis flip book to show the changes that happen at each phase of mitosis. Design your flip book on paper, or develop a digital one for a computer or hand-held device. Compare your completed flip book with others in the class.

Mitosis Flip Book (Paper Version)

1. Cut out each of the rectangles below.
2. Draw a diagram of each phase of mitosis (in a plant or animal cell) in the rectangles. Indicate the correct locations of chromosomes in each phase, as well as other cell changes. (Tip: Begin by drawing the overall outline of a large cell's membrane in prophase, then trace the shape for the next phases to help the pictures align when flipping.)
3. You may add to the flip book by cutting out additional rectangles and drawing intermediate phases or cytokinesis.
4. To assemble your flip book, attach the rectangles together at the same edge.

Prophase

Metaphase



DATE:

NAME:

CLASS:

TOPIC 1.2

Activity: Mitosis Flip Book

BLM 1.2-5

Anaphase

Telophase

