NAME: DATE: PERIOD:

Use Chapter 9 in your textbook as well as your Mitosis and Meiosis notes to complete this activity.

Mitosis Pieces

1. Cut out the pictures of the stages of mitosis.
2. On a separate sheet of paper, glue the pictures in the correct order.
3. Label the phase of each picture. Many of the phases will have more than one picture. Put all of the pictures for any one particular phase together and then label the group. Some pictures may be in between phases; label the two phases to which the picture belongs.
4. Write a **brief**, but meaningful, description of what is happening at each of the phases IN YOUR OWN WORDS.
5. Label: nuclear membrane, centrioles, spindle fibers, centromere, chromatin, sister chromatids, centrioles, nucleus. You do not need to label each picture, but be sure that each part is labeled somewhere in the puzzle.

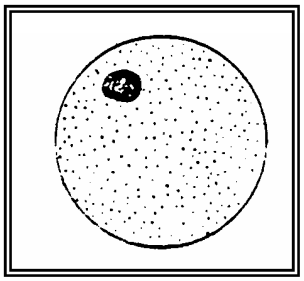
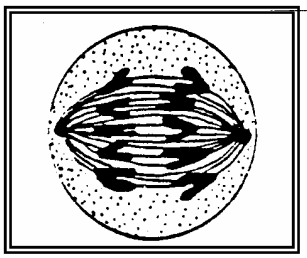
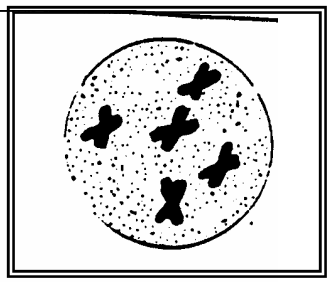
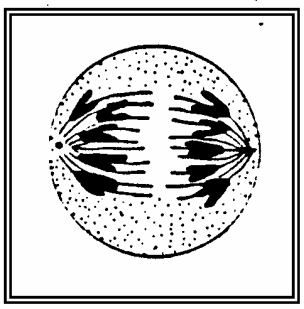
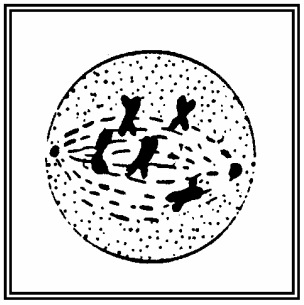
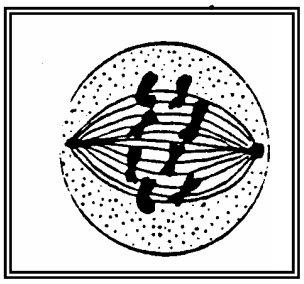
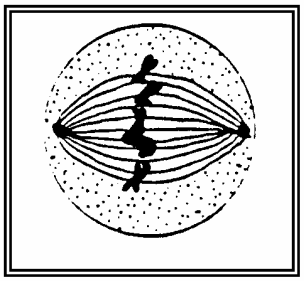
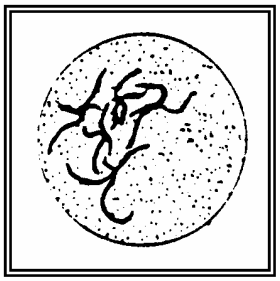
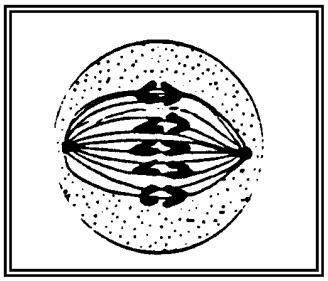
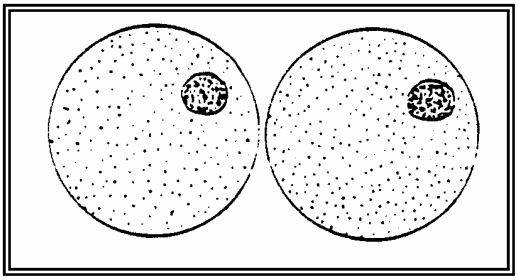
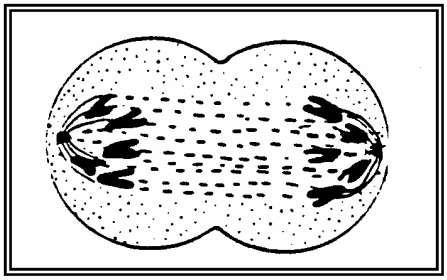
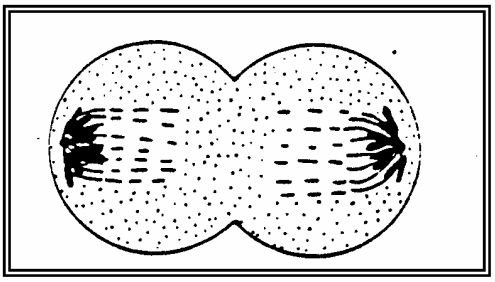
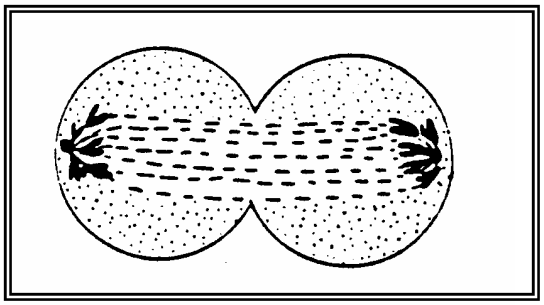
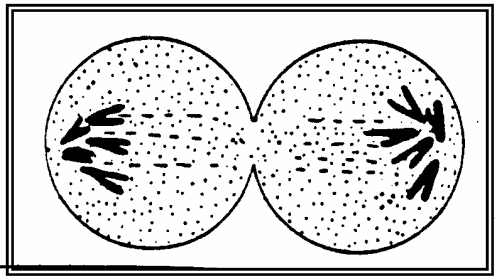
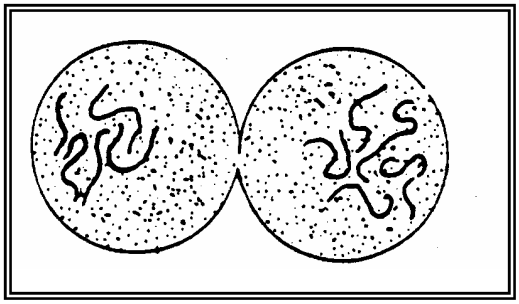
Your mitosis pictures are on the next page. After you have completed both sets of puzzles, answer the following questions (You can use a separate piece of paper if necessary.):

A. Why does DNA need to make a copy of itself before mitosis begins?

B. What would happen if the DNA did NOT make a copy of itself?

C. Why is mitosis important to our survival?

D. Does mitosis ever stop happening in our bodies? Explain your answer.

NAME: DATE: PERIOD:

Meiosis Pieces

Use Chapter 9 in your textbook as well as your Mitosis and Meiosis notes to complete this activity.

1. Cut out the pictures of the stages of meiosis.
2. On a separate sheet of paper, glue the pictures in the correct order.
3. Label the phase of each picture. Many of the phases will have more than one picture. Put all of the pictures for any one particular phase together and then label the group.
4. Write a **brief**, but meaningful, description of what is happening at each of the phases **IN YOUR OWN WORDS.**
5. Label: nuclear membrane, centrioles, spindle fibers, centromere, tetrad, sister chromatids, centrioles, nucleus, daughter cells. You do not need to label each picture, but be sure that each part is labeled somewhere in the puzzle.

QUESTIONS:

1. Why is there no second Interphase during gamete cell replication?

2. Why must the cells be haploid? (Ue your notes to remind yourself what haploid means.)

3. Describe a tetrad.

4. Describe what we mean by homologous pairs.