

STANDARDS

- <u>CCSS</u>: RST.9-10.1, 2, 4, 5, 6, 8, 10; RST.11-12.1, 2, 4, 6
- **NGSS**: HS-LS1-1, HS-LS1-4, HS-LS3-2
- <u>OLP</u>: 5.C.44, 5.C.47, 5.C.48, 5.C.53, 5.C.55, 5.C.56

ONLINE CONTENTS

Life Cycle Quiz

LIFE CYCLE

This lesson is a part of the *Life Cycle* unit, which explains the cell cycle and the life cycle of corals. Below is a summary of what is included in the entire unit.

UNIT CONTENTS

- A. Background Information
 - Coral Life Cycle
 - Cell Cycle
 - Mitosis
 - Meiosis
 - Coral Cycles
- B. Lessons

Coming Full Circle

 An activity to make a story wheel of the coral life cycle

Dividing the Parts

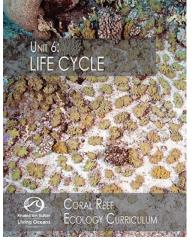
• A crossword puzzle to match the mitosis cell structures to their function

Label It!

• A worksheet to label the structures of a chromosome and a cell undergoing mitosis

Read it! Coral Recruitment

 A worksheet to accompany the <u>Coral Recruitment in the</u> <u>Garden of Good and Evil: How Baby Corals Get Started on</u> <u>Coral Reefs</u> field blog

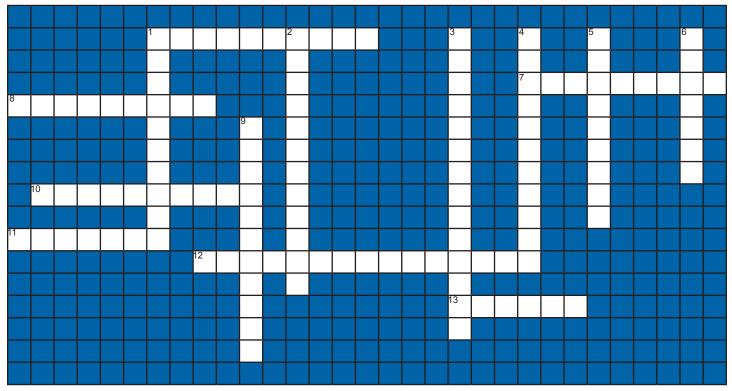




Name: _____ Date: _____



INSTRUCTIONS: Fill in the crossword puzzle using the clues below.



ACROSS

- 1. During cell division, it migrates to opposite poles and aids in pulling apart the chromosomes.
- 7. When dividing a chromosome longitudinally, each half is called a
- 8. A cylindrical organelle that consists of microtubules.
- The area on the chromosome where the 10. kinetochores attach during cell division.
- 11. A structure that separates chromosomes during cell division. It contains the spindle fibers and centrosomes.
- 12. A double layered membrane that surrounds the nucleus, separating the nucleus from the cytoplasm.
- 13. A group of four chromatids that form during meiosis.

DOWN

- 1. A long strand of molecules called DNA.
- 2. Clusters of microtubules that help to move chromosomes during cell division.
- 3. An imaginary vertical plane that divides the cell into two halves.
- 4. Miniature tubes that help to support the structure of the cell.
- 5. A process of exchanging chromosome segments (genetic material) during meiosis.
- 6. The area where crossover takes place and genetic material is exchanged during meiosis.
- 9. A structure that forms on the centromere of a chromosome that is the point of attachment for microtubules during cell division.