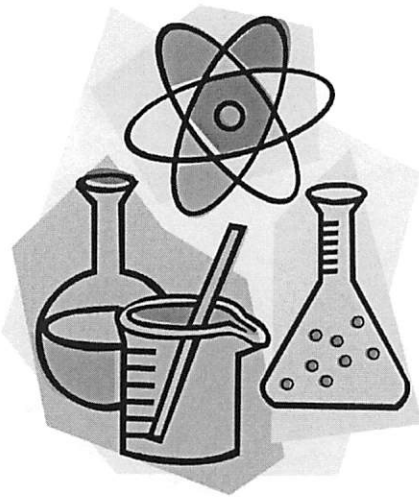


ROAD BRANCH ELEMENTARY & MIDDLE SCHOOL

NTID/SNOW DAY PACKETS



SCIENCE 7

Day 4

Key Concept Builder 

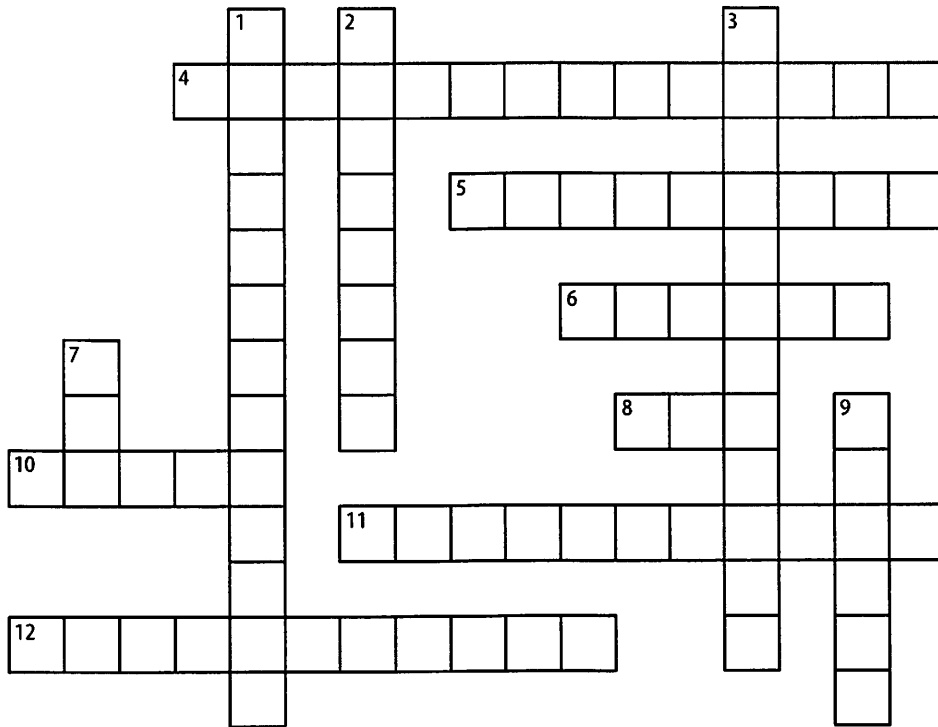
LESSON 1

Cells and Life

Key Concept What basic substances make up a cell?

Directions: Use the clues and the terms listed below to complete the puzzle.

- | | | | | | |
|----------------|---------------|-------------|----------|--------|--------|
| carbohydrates | cellulose | cholesterol | DNA | energy | lipids |
| macromolecules | nucleic acids | nucleotides | proteins | RNA | water |



Clues

Across

- 4. large molecules that form when smaller molecules join
- 5. provides support in plant cell walls
- 6. form cell membranes
- 8. used to make proteins
- 10. main ingredient in any cell
- 11. join to form nucleic acids
- 12. one type of lipid

Down

- 1. long chains of sugar molecules
- 2. long chains of amino acid molecules
- 3. contain genetic material
- 7. includes instructions that enable cells to grow
- 9. released through chemical reactions

Content Vocabulary

LESSON 1

Cells and Life

Directions: In this word search puzzle, find and circle the seven terms listed below. Then write each term on the line before its definition. **NOTE:** The terms theory and cell theory appear in different locations in the puzzle.

- carbohydrate**
- cell theory**
- lipid**
- macromolecule**
- nucleic acid**
- protein**
- theory**

D N Y R O E H T N J A P E
 F H U U Y O T H X M N L J
 Q T T C V N X D E B U A P
 W Y G Y L B J I S C U R M
 O R P U K E N Z E B O P C
 B L M L A E I L N T Y C E
 A P I Y S J O C E A G T L
 E G P A Q M S I A V M C L
 J E S F O O N K B C O V T
 D O O R Y K Z Q C C I R H
 E I C Q C S S I F P M D E
 W A P A K E R R I Z A U O
 M Z I I G C H N U P W U R
 X W K A L B G C Y V R W Y
 C A R B O H Y D R A T E G

- _____ 1. a substance that forms by joining many small molecules together
- _____ 2. a large macromolecule that does not dissolve in water
- _____ 3. a long chain of amino acid molecules
- _____ 4. one or more sugar molecules
- _____ 5. a macromolecule that forms when long chains of nucleotides join
- _____ 6. an explanation based on scientific knowledge resulting from many observations and experiments
- _____ 7. an explanation stating that living things are made of cells, that the cell is the smallest unit of life, and that all cells come from preexisting cells