

# 5TH GRADE SCIENCE TCAP STUDY GUIDE

By the end of 5<sup>th</sup> grade, I will be able to...

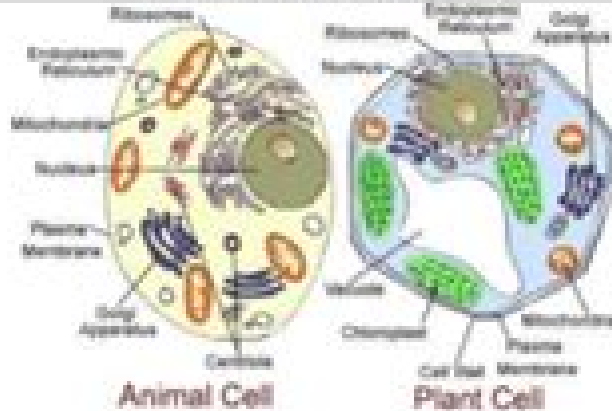
## LIFE SCIENCE PART 1

### STANDARD

**587.1.1**  
Identify the major parts of plant and animal cells, such as the nucleus, cell membrane, cell wall, and cytoplasm.

**587.1.2**  
Compare and contrast basic structures and functions of plant and animal cells.

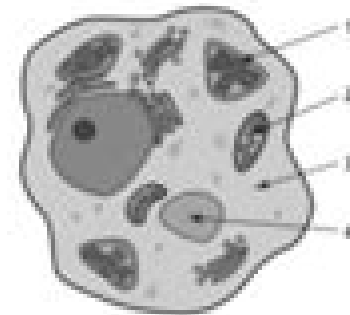
### NOTES AND INFORMATION



- ✓ **NUCLEUS** - control activities of the cell, the "brain"
- ✓ **CYTOPLASM** - the jelly like substance that fills the cell; 2/3 water
- ✓ **CELL MEMBRANE** - thin flexible outer covering of the cell; controls what comes in and goes out of the cell
- ✓ **MITOCHONDRIA** - produces energy used by the cell, the "power house" of the cell
- ✓ **VACUOLE** - sac like structure that holds water, nutrients, and waste
- ✓ **CELL WALL** - tough rigid outer covering of a plant cell; protects the cell and gives it structure
- ✓ **CHLOROPLAST** - contains chlorophyll; makes a plant green; where photosynthesis takes place
- ✓ Only **PLANT** cells have a **CELL WALL** and **CHLOROPLASTS**. They also have **LARGER VACUOLES** than animal cells.

### SAMPLE QUESTION

**1** The diagram shows a cell.



Which numbered structure represents the cytoplasm?

- A 1
- B 2
- C 3
- D 4

### STANDARD

### NOTES AND INFORMATION

### SAMPLE QUESTION

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**SA Dillow**



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