## Science - Mr. Croft

Snow Day 1 – Complete Metrics warm up

Snow Day 2 – Complete Plant vs. Animal Cells

Snow Day 3 – Mitosis and Meiosis Crossword

Snow Day 4 – Scientific Method Warm Up

Snow Day 5 – Cell Theory Warm Up

.Name: Date:
Metrics Warm-Up
Define the following key terms in your own words.
Metric System
Meter
Gram
Liter
Second
Mark "T" for True and "F" for False for the following statements.  1 A centimeter is greater than a millimeter.
2 30 milliliters is equal to 3 liters.
3 The metric system is based on powers of 10.
4 The metric volume of a liquid is measured in milliliters.
5 The metric mass of an object is measured in pounds.
6 The prefix "kilo" means thousand.

7. \_\_\_\_\_ A kilometer is longer than a mile.

9. \_\_\_\_ A centigram is equal to 10 grams.

11. \_\_\_\_ Milliliters are the metric unit for mass.

12. \_\_\_\_ The prefix "milli" means one-thousandth.

10. \_\_\_\_ A meter is longer than a yard.

\_\_\_\_\_ The prefix "centi" means one-thousandth.

.Name:	Date:

# Plant vs. Animal Cells Warm-Up

Describe each of the following key vocabulary terms using your own words.

Cell - \_\_\_\_\_\_

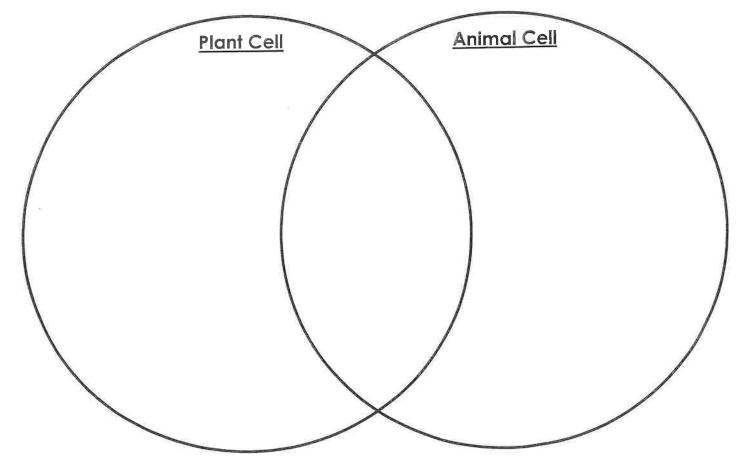
Organelle - \_\_\_\_\_

Animal - \_\_\_\_\_

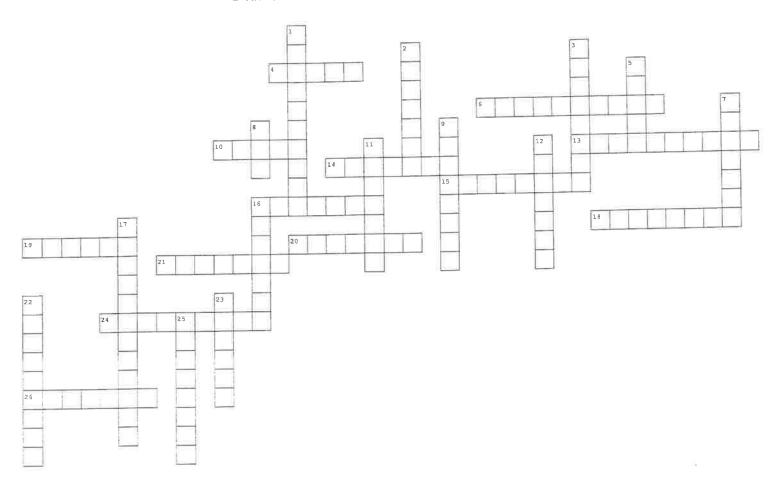
Plant - \_\_\_\_\_

Photosynthesis - \_\_\_\_\_

Compare and contrast Plant and Animal cells using the Venn Diagram below.



## Mitosis and Meiosis Crossword



#### Across

- 4. One of the creators of the 1st DNA model.
- 6. Holds chromosomes together.
- **10.** A section of DNA on chromosomes that codes for traits.
- **13.** Nucleus can be seen, chromosomes duplicating themselves.
- 14. When the nucleus divides to make sex cells.
- **15.** Strands of chromosomes pulled apart and move to opposite ends of each other.
- **16.** A type of reproduction where new organisms are produced by one parent.
- 18. Any permanent change in the DNA sequence.
- 19. When egg and sperm combine (start of life).
- 20. New organism grows from the parent.
- 21. 1 of the 4 nitrogen bases of DNA.
- 24. The cytoplasm of both cells begins to separate.
- 26. Sex Cells that has 23 chromosomes.

#### Down

- 1. Structure in the nucleus that contains DNA.
- 2. When the nucleus of a cell divides to form 2 identical cells.
- 3. 1 of the 4 nitrogen bases of DNA.
- 5. How many steps are involved with DNA copying itself?
- 7. Division of organism into 2 equal parts.
- 8. Deoxyribonucleic acid, it has a double helix shape.
- 9. Franklin was the first person to discover DNA.
- 11. Body cells that has 46 chromosomes.
- 12. I of the 4 nitrogen bases of DNA.
- 16. 1 of the 4 nitrogen bases of DNA.
- 17. Making new body parts.
- **22.** Chromosome pairs line up across center and attach to spindle fibers.
- 23. One of the creators of the 1st DNA model.
- **25.** Chromosome pairs are visible, centrioles move to opposite ends.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Scientific Method Warm-Up

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Define the following key terms in your own words.

Scientific Method – a way of problem solving by making a hypothesis and testing it

Problem - the question in an experiment that is being tested

Hypothesis – an educated guess or statement about what is going to happen

Procedure - a set of steps to follow in order during an experiment

Variable – a factor in an experiment that can exist in different amounts

Conclusion – the final summary of the data and results

Compare and contrast Dependent and Independent Variables using the Venn Diagram below.

### <u>Dependent</u> <u>Variable</u>

- The variable that is tested in an experiment
- Changes as a result of the independent variable
  - Also known as the responding variable

- Types of variables
- Important parts
  of an
  experiment
- Can change from experiment to experiment

### <u>Independent</u> <u>Variable</u>

- Changed for a desired outcome
- Also known as the manipulated variable

	heory and Levels of anization Warm-Up
	entist's contributions to Cell Theory using your own words.
Robert Hooke	
Anton van Leeuwenhoek	
	e three major parts of Cell Theory.
3.	
- Match the following voca	bulary terms to the correct definition.
1 Cell	A. groups of organs working together
2 Tissue	B. groups of similar tissues performing the same function
3 Organ	C. the most basic unit of life
4 Organ System	D. groups of organ systems working together
5 Organism	E. groups of similar cells performing the same function

Năme: \_\_\_\_\_

Date: \_\_\_\_\_