

## Cell Theory Lesson

Class: 9<sup>th</sup> Grade Biology

### Objective:

- To identify the scientists involved in developing the cell theory
- To describe the parts of the cell theory
- To explain how the development of the microscope influenced the cell theory

### Lesson:

- Provide student pairs with a printed version of the text about the cell theory
- Let them read over the titles of each section and look at the pictures, to predict what the text will be about and begin to fill in the Know section of the KWLS chart.
- Have the student pairs read the text together and at the end of each paragraph write a one to two sentence summary next to the paragraph they just read.
- At the end of the reading, have the student pairs discuss with each other and fill in the rest of the KWLS chart.
- As a class we will discuss what their responses were on the chart.
- After, the discussion, the student groups will summarize their reading on the cell theory worksheet
- Student groups will get together to develop and present a skit about the development of the cell theory.

# WHAT IS THE

# cell theory?



ROBERT HOOKE

1665

ANTON VAN LEEUWENHOEK

1673

1838

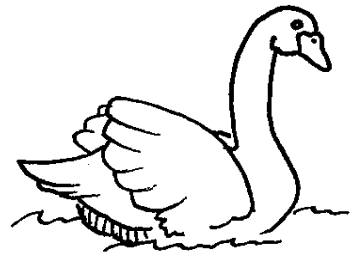
1839

1855

MATTHIAS SCHLEIDEN

RUDOLF VIRCHOW

THEODOR SCHWANN



WHAT ARE THE COMPONENTS OF THE CELL THEORY?

1.

2.

3.

?? HOW DO YOU THINK THE INVENTION OF THE MICROSCOPE INFLUENCED THE CELL THEORY??

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| <b>K</b>    | <b>W</b>            | <b>L</b>       | <b>S</b>                  |
|-------------|---------------------|----------------|---------------------------|
| Know        | Want                | Learned        | Still                     |
| What I know | What I want to know | What I learned | What I still want to know |
|             |                     |                |                           |

## **Biology**

### **Cell Theory Skit**

**Objective:** To explain the development of the cell theory.

**Directions:** Develop a skit that you will present to the class about the scientists involved and the process of developing the cell theory.

#### **What to include in your skit:**

- Include the following scientists and their contribution to the cell theory
  - Rook Hooke
  - Anton Van Leeuwenhoek
  - Matthias Schleiden
  - Theodor Schwann
  - Rudolf Virchow
- The three parts of the cell theory

#### **How you will be graded:**

- Including all required information
- Accuracy of the information
- Creativity
- Participation

Cell Theory Skit Grading Sheet

|                                      | Points Possible | Points Earned | Comments |
|--------------------------------------|-----------------|---------------|----------|
| Robert Hooke's contribution          |                 | 10            |          |
| Anton Van Leeuwenhoek's contribution |                 | 10            |          |
| Matthias Schleiden's contribution    |                 | 10            |          |
| Theodor Schwann contribution         |                 | 10            |          |
| Rudolf Virchow contribution          |                 | 10            |          |
| 3 parts of the cell theory           |                 | 10            |          |
| Creativity                           |                 | 5             |          |
| Participation                        |                 | 5             |          |
| Total Points Possible                | 70              |               |          |
| Total Points Earned                  |                 |               |          |
| Grade                                |                 |               |          |