

NAME \_\_\_\_\_

DATE \_\_\_\_\_

HOUR \_\_\_\_\_

### 9.1: EXPLORING MEANING

Directions:

\*You have been provided with a "Think Aloud" bookmark which provides you with a number of different "talk stems." These "talk stems" may help you to organize ideas as you read. Read through them before you begin reading and try to keep them in mind as you read.

\*Read section 9.1 (pg.209-212) aloud with your partner. You may find it easiest to stop after each section to complete the related portion of this paper and then continue reading.

\*Reminder: You and your partner should be working together and discussing your thoughts as you complete this paper. In doing this, you and your partner will have most or all of the same answers written on your papers. However, each person needs to complete their own paper to turn in.

**1. INTRODUCTORY PARAGRAPH OF THE SECTION (top of pg. 209 right after the objectives:)**

\*Decide with your partner which is the most important sentence in the paragraph and write it down below.

---

---

### 2. SECTION ENTITLED: "MOLECULES IN MOTION" (pg. 209:)

\*For each vocabulary term in this section, choose one talk stem from the Think Aloud bookmark to complete and write it down in the table below. **CHOOSE A DIFFERENT TALK STEM TO USE FOR EACH WORD.**

\*Also for each term, discuss with your partner what you pictured as you read and why. Draw the picture of what you saw as you read and explain how your drawing relates to the reading.

TERM	"TALK STEM" SENTENCE	PICTURE	EXPLANATION OF PICTURE
temperature			
Heat energy			

Internal energy			
-----------------	--	--	--

**3. SECTION ENTITLED "MEASURING TEMPERATURE" (pg. 210:)**

Decide with your partner what the BIG IDEA of this section is and write it below.

---



---



---

What is one question that you have or one thing that you are confused about after reading this section?

---



---

**4. Read the "Historical Notebook" (bottom of pg 210:)**

Draw a picture of what you thought about while reading this section and explain why this is what you pictured in your mind.

Picture	Explanation of Picture

**5. Read pg 211. Don't forget to look at the pictures and read the info in the boxes:**

After reading about the **Kelvin scale**, what do you think is the main difference between the Kelvin temperature scale and the temperature scales that we are more familiar with (Celsius and Fahrenheit?)

---



---



---

Fill in the data table:

Temperatures for Water	Celsius	Kelvin
Boiling Point		
Melting (Freezing) Point		

\*Choose 2 **different** talk stems from your Think Aloud bookmark to complete after reading about **absolute zero**.

Talk stem 1:
Talk stem 2:

\*Also for each term, discuss with your partner what you pictured as you read and why. Draw the picture of what you saw as you read and explain why reading about **absolute zero** brought this picture to your mind.

Picture:	Explanation of Picture:
----------	-------------------------

**6. SECTION ENTITLED "SCIENCE AND TECHNOLOGY" (pg. 212:)**

Summarize this section in 3 sentences or less: \_\_\_\_\_

---

---

---

---

---

**Why** do you think that the information in the "Science and Technology" section was included in 9.1?

---

---

---

---

