

NAME:

DATE:

Pd:

## Solving Problem Worksheet

*Direction: Write the terms that match the definitions on the lines provided.*

***Control setup (group), Critical thinking, Data, Hypothesis, Objective, Observation, Scientific Method, Theory, Variable, Conclusion***

1. A proposed answer to a problem that can be tested
2. A standard for comparison in an experiment
3. A changeable factor in an experiment
4. Recorded observations and measurements
5. An explanation backed by results from repeated tests or experiments
6. Problem-solving strategies used by scientists
7. Problem laboratory activity is designed to solve.
8. What you perform by seeing, hearing, feeling, smelling, etc...
9. Process that uses certain skills to solve problems.
10. Is the problem correct or incorrect

*Number these scientific methods from 1 to 5, with 1 being the first step.*

- \_\_\_ A. Determining the problem
- \_\_\_ B. Analyzing the results
- \_\_\_ C. Making a hypothesis
- \_\_\_ D. Drawing conclusions
- \_\_\_ E. Testing

***Determine which step of these scientific methods corresponds to each of the following activities.***

***Write the appropriate number of the step in the blank.***

- \_\_\_ A. I realize the milk in the refrigerator is warm.
- \_\_\_ B. I turn down the setting on the refrigerator control and check the milk's temperature every fifteen minutes.
- \_\_\_ C. I think the refrigerator control may be set too high.
- \_\_\_ D. Based on the temperature of the milk, I conclude that my hypothesis was correct.
- \_\_\_ E. I examine my temperature readings to determine if the temperature has dropped.