



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 5 COURSE NAME: Science
MEASUREMENT TOPIC: Investigate Physical and Chemical Changes of Matter

4

In addition to Score 3, the student makes in-depth inferences and applications.

3

- **Conduct investigations to provide evidence that the total weight of matter is conserved during phase changes when substances are heated, cooled, or mixed.**
- **Analyze data from tests to determine whether a new substance is formed after two or more substances are combined.**

2

- Distinguish between physical and chemical changes
- Investigate the effects of phase change on matter.
- Identify characteristics of mixtures and solutions.

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: solvent, solute, reactants, products