

## Detailed Lesson Plan in science and Technology I

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### I. Objectives:

At the end of the lesson, 100% of the students shall attain at least 80% level of proficiency in:

1. defining adhesion and cohesion
2. demonstrating adhesive and cohesive properties of water
3. relating adhesion and cohesion to daily lives

### II. Subject Matter: Adhesion and Cohesion

Unit III: Matter and Its Properties

Chapter 36: Matter and Its Properties

Lesson I: Adhesion and Cohesion

Materials: Beaker or narrow-spouted measuring cup

Yarn (soaking wet)

Container

Colored water

Music player

Water

Paper and drawing materials

Event 1: plastic cups, one hundred peso coins/ small stones/ marbles

Event2: eye dropper/ medicine dropper, 1 peso coin

Event 3: boat pattern, card board, scissors, soap chips, trays, stopwatch

Event 4: paper clips, fork, magnifying glasses, clear plastic cups

Event 5: tissue paper, glasses, tape, ruler, scissors

Concept: Students see signs of water's adhesive properties daily (e.g. water leading on the surface of the glass); however, they may not appreciate how unique this quality is, learning how water strider skates over the surface of water or how water travels upward through soil gives students opportunities to explore further the structure and behavior of the water molecule.

Skills: defining demonstrating relating

Values: Students will develop to themselves the characteristics of cooperation, camaraderie and patience towards each other by having this lesson and activity.