

## SCIENCE LESSON 1

DATE: 01/01/10

CURRICULUM AREA: SCIENCE

STRAND: Strand 3 – Matter & Materials

SUB STRAND: Matter

TOPIC: Property of air (Air takes up/occupy space)

CLASS: Standard 3 Grade II

AGE RANGE: 8-9 years

NO. IN CLASS: 24

DURATION OF LESSON: 25 minutes

### PREVIOUS KNOWLEDGE, SKILL AND EXPERIENCE

Students would have had knowledge, skill and experience of:

1. Air being all around them.
2. Air being invisible.
3. Knowing that we use air to breathe

### SPECIFIC OBJECTIVES

At the end of this lesson, pupils will:

- Orally state one property of air: that is air takes up space.
- Work cooperatively in group.
- Demonstrate that air takes up space.

### ENQUIRY SKILLS

Observing, communicating through speech, manipulating materials, inferring, recording.

### TEACHING AIDS AND LEARNING RESOURCES

- A balloon
- A plastic bag
- A box
- Chalk
- A bottle
- A bowl of water
- A straw
- Poster
- Large Container of water
- Plastic cup
- tissue

### SAFETY PROCEDURES

Pupils will be expected to adhere to the safety rules which are:

- They are not to play with the instruments.

- When blowing the balloon ensure that it is not blown too big for the balloon to burst.
- The students should take care that when blowing during the activity, they do not hyperventilate and get dizzy.
- They are to wash their hands after they have finished the lesson.

## INTRODUCTION

The students will be already present in groups of five. Teacher enters the classroom all confused, as she is looking for air. She asks students for help in looking for this air. When the response 'air cannot be seen' is given by the class, the teacher recaps some properties of air, which are air cannot be touched, air is all around us. The teacher sets the purpose for the lesson by saying "Today we are going to learn something new about air".

## CONTENT

## METHODOLOGY

Concept/Skill/ Value	Teacher's Strategies	Pupils' Activities
Section 1 Exploration  <u>Exploring the concept</u>  Interacting with materials and each other	The teacher: <ul style="list-style-type: none"> <li>• Asks for three volunteers.</li> <li>• Distributes record sheets to the class</li> <li>• Tell the class that you are giving these students some objects and some special commands to follow.</li> <li>• Gives volunteers materials</li> <li>• Instruct the rest of the class to pay particular attention to the objects and to record what is happening.</li> <li>• Ask volunteers to come in the front of the class:                Volunteer # 1: Apply air into a balloon                (<i>Commands: show class the deflated balloon in box. Make the balloon bigger. Place inflated balloon back into the box. Show the class the box now</i>)                 Volunteer # 2: Apply air into the bottle                (<i>Commands: fill bottle with water and turn it upside down in a bowl of water. Place straw into bottle and blow air into the straw</i>)                 Volunteer # 3: Apply air into a plastic bag</li> </ul>	The students: <ul style="list-style-type: none"> <li>• Volunteer to perform activity</li> <li>• Collect materials</li> <li>• Listen attentively</li> <li>• Each volunteer manipulates their objects to discover that air takes up/occupy space.</li> <li>• Remaining class records their observation of the three activities done</li> </ul>