

Micro-Teaching Lesson Plan

Subject: Science

Skill: Skill of Demonstration

Identification of Data:

Subject: General Science Topic: Buoyancy Class: VII	Teacher: Time: 6 minutes Date:
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Teaching Point: Buoyancy of a liquid depends on its density. As density increases the Buoyancy of the liquid increase.

Teaching Aids:

- ❖ General Aids:
- ❖ Specific Aids: A beaker, water, an egg, salt, a spoon etc.

Step	Teacher's Activities	Pupils' Activities	Component of the Skill
I N T R O D U C T I O N	<p>The teacher will welcome the pupils and place the teaching aids properly. He/she will then tell the pupils, "Today I will show you a very interesting experiment."</p> <p>Showing the beaker filled with water and the egg, the teacher will ask the pupils, "If I drop this egg into the water in the beaker, what will happen?"</p>	<p>The pupils will respond and be attentive.</p> <p>The pupils may give mixed answers: "It will sink." "It will float."</p>	<p>Creation of an appropriate situation</p> <p>Pupils involvement</p>

Step	Teacher's Activities	Pupils' Activities	Component of the Skill
D E V E L O P M E N T	<p>He/she will say- "Let us see then what happens," and drop the egg very carefully into the beaker and ask the pupils:</p> <p>(i) What do you observe?</p> <p>(ii) Why does it sink in water?</p>	<p>They will answer as follows:</p> <p>"It has sunk into water." "Because the buoyancy of water is less than the weight of the egg."</p>	Heuristic approach
	<p>Then he/she will invite a student to come to help him/her. He/she will ask the pupil to mix salt in water with the spoon and ask the other pupils to observe minutely.</p>	<p>The pupil will help the teacher in mixing salt in water and the pupils observe minutely.</p>	Pupils' involvement
	<p>He/she will then ask the pupils: "If I put the egg in this saline water now, what will happen?"</p>	<p>They are expected to give mixed answers: "It will sink," "It will float."</p>	Heuristic approach
	<p>He/she will then ask the pupil to put the egg into the saline water very gently and then ask them:</p> <p>(i) What do you observe now?</p> <p>(ii) Why does the egg float in saline water?</p> <p>(iii) What happens to the water when salt is added?</p> <p>(iv) Can you find a relationship between buoyancy and density?</p>	<p>They are expected to answer as follows:</p> <p>(i) "It floats." (ii) The displaced saline water is heavier than the egg. (iii) "Its density will increase." (iv) The pupils will try to relate density with buoyancy.</p>	Generalization

Step	Teacher's Activities	Pupils' Activities	Component of the Skill
C O N C L U S I O N	After the rule being generalized by the pupils, the teacher will reorganize it and write it on the black board as follows: "Buoyancy of a liquid depends on its density. As the density increases, the buoyancy of the liquid also increases."	The pupils will note down the generalized point from the black board.	

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