BIRLA VIDYA NIKETAN EVS, ASSIGNMENT-3 CLASS V BLOW HOT BLOW COLD

Q1. Perform the following activities and record your observations:

ACTIVITIES		OBSERVATIONS	
1.	Keep your hand close to your mouth and	Rapid cool air / Slow warm air	
	blow out air with pursed lips.		
2.	Keep your hand close to your mouth and	Rapid cool air / Slow warm air	
	blow out air with open mouth.		
Inference:			

The sensation of heat or cold when blowing on your hand depends on the speed of the air flow.

Reason:

When we exhale with wider mouth air comes out slowly and feels warmer but when we purse our lips air rushes out with speed from narrow opening which makes the air cooler.

ACTIVITIES		OBSERVATIONS	
1.	Keep your hand close to the mouth and blow out air with open mouth.	Warm air can be felt	
2.	Keep your hand away from mouth and blow out air with open mouth.	No effect	

Inference:

Warmth of the air from mouth can be felt at a short distance.

Reason:

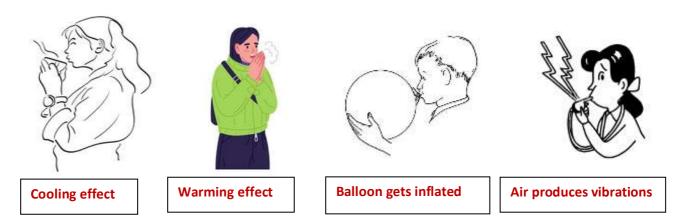
In this case, air from the mouth is warmer than the air outside and can be felt close to mouth but on increasing distance, warm air from mouth mixes with the air outside and doesn't feel so warm.

ACTIVITIES		OBSERVATIONS
1.	Take a mirror, keep it close to your mouth	Fog appears on the mirror
	and blow air on it with mouth wide open.	

Reason:

Warm air from mouth settles on the cool surface of mirror and cools down to form fog. This is called condensation.

Q2. What is the effect of blowing out air in the following cases?



Q3. Try this and record your observations:

ACTIVITIES		What happens to your hand?	What happens to the object?
1.	Touching a warm object.	Gets warmer	Gets cooler
2.	Touching a cold object.	Gets cooler	Gets warmer

b) Clockwise

Inference:

Heat transfers from hotter object to cooler object. (From high temperature to low temperature) If we hold it for longer time, both the hand and object come to the same temperature.

Q4. Draw the condition when snake will rotate in these directions. Why does this happen?

a) Anti-clockwise

Placing paper snake under the fan Placing paper snake over the flame

Property: Property:

Cool air is heavy and settles down moving the snake. Hot air is light and it rises up moving the snake.

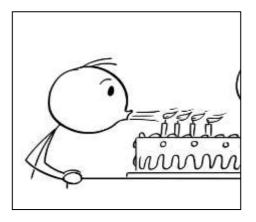
Q5. Name and draw any two musical instruments that work on air?

Flute, Mouth organ, trumpet, shehnai, been

Q6. How does air help in the following cases?



Air is slowly blown into chulha to provide more oxygen from surrounding which supports burning.



Strong blow releases large amount of air which extinguishes the candle flame.