



TOPIC- AIR, WATER AND WEATHER

NAME - _____ CLASS IV/ SEC _____ DATE - 11/01/2021-15/01/2021

LEARNING OBJECTIVES:

Each child will be able to:

- define the term wind, breeze and storm correctly.
- describe the role of sun in causing wind to blow.
- differentiate between land breeze and sea breeze.

**What is as light
as a feather but
not even the
strongest man in
the world can
hold it for more
than a few
minutes?**

*Hint: It is present
all around us.*

Answer:

Let's Understand.

Watch a video by clicking '[here](#)' and fill in the blanks.

- Moving air is called _____.
- Wind that moves gently is called _____.
- Fast and strong winds can cause _____



**This tree got
uprooted
because of:**

- air
- storm
- wind

AAC ACTIVITY: CONFIRMING THE FACTS

FACT: HOT AIR RISES UP

MATERIAL REQUIRED:

Two containers, one filled with hot tap water and the other with ice and cold water, 1 balloon and a 1.25litre (or 2litre) plastic bottle.

STEPS:

1. Blow the balloon up to stretch it and help make it more flexible and let the air out.
2. Place the balloon over the mouth of the empty plastic bottle.
3. Stand the bottle in the centre of the container filled with hot water. Wait a few minutes and notice the balloon.
4. Remove the bottle from the hot water and place it in the container with cold water and ice. Wait a few moments and notice the balloon.

OBSERVATION: _____

CONCLUSION: _____

FACT: LAND GETS HEATED UP FASTER THAN WATER

Put equal amounts of water and sand in two bowls. Place them under the Sun for two hours and note down their temperatures with a thermometer. Now, place these bowls inside a room for one hour and then note down the temperatures of each bowl.

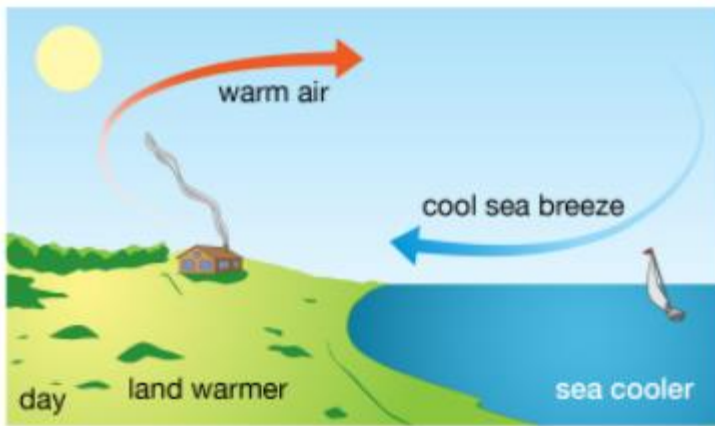


OBSERVATION: _____

CONCLUSION: _____

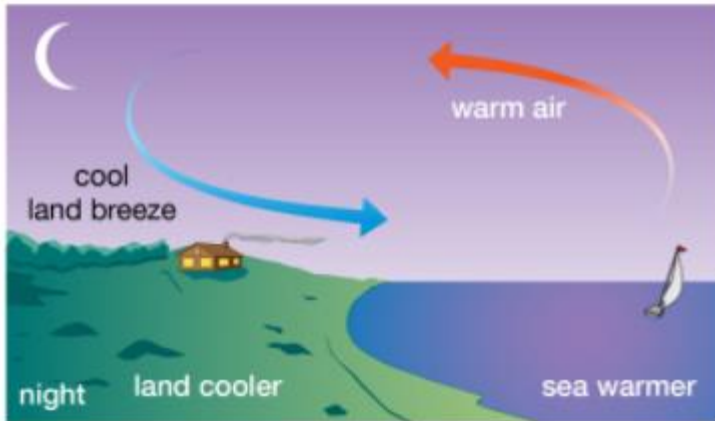
In the given time sand and water do not absorb or lose the same amount of heat. During the day time, the land becomes hot and the air above the land also heats up. Since hot air is lighter, it rushes up and cool air takes its place. This is how the wind blows.

May it be hot summer time or cold winter times...
weather of coastal areas always remain pleasant.
Do you know why?



SEA BREEZE

During the day, the land gets heated quickly. When the air above the hot land gets heated, it rises up and the cool air from the sea takes its place. Thus, a cool breeze (sea breeze) blows towards the land.



LAND BREEZE

At night, the land cools down faster than the sea. So the sea is warmer than the land. The hot air above the sea rises and the cooler air from the land blows towards the sea.

REFERENCE:

<https://www.youtube.com/watch?v=351y8QRbvlw>

LET'S REVISE

1. Choose the correct option.

- a. Changes in weather are caused primarily due to
 - i. sun
 - ii. clouds
 - iii. rain
- b. _____ changes from day to day.
 - i. climate
 - ii. season
 - iii. weather
- c. In coastal areas which breeze blows during night time?
 - i. land breeze
 - ii. sea breeze
 - iii. wind

2. Give reason:

- a. Coastal areas have pleasant weather even on a very hot day.
- b. Sun causes wind to blow.

3. List down the things present in air.