

**Niscort Father Agnel School**  
**Self Learning Worksheet**  
**Science, Class- VII**  
**Weather, Climate and Adaptation**

**Q1) Fill in the blanks:**

1. The weather reports are prepared by the \_\_\_\_\_ department of the government.
2. The day today condition of the atmosphere in a place is called \_\_\_\_\_ at that place.
3. The maximum temperature of the day occurs in the \_\_\_\_\_ while minimum temperature occurs in the \_\_\_\_\_.
4. Polar regions are situated near \_\_\_\_\_ and tropical region is situated around the \_\_\_\_\_.
5. Special features of an animal to live in its surrounding is called \_\_\_\_\_.
6. Penguins are good swimmers because their bodies are \_\_\_\_\_ and their feet have \_\_\_\_\_.
7. All the changes in the weather are driven by the \_\_\_\_\_.
8. One of the important features of tropical region is \_\_\_\_\_.
9. The \_\_\_\_\_ regions are very cold throughout the year.
11. The temperature, humidity, rainfall and other factors are called \_\_\_\_\_ of the weather.
10. The typical desert climate is \_\_\_\_\_ and \_\_\_\_\_.
12. The climate of the north-east of India is \_\_\_\_\_.
13. \_\_\_\_\_ is a means which is adapted by some birds to escape the harsh, cold conditions.

**Q2) Name the following:**

1. An instrument used to measure rainfall.
2. The thermometer used to record maximum and minimum temperature.
3. Two animals living in Polar regions.
4. Two animals living in tropical regions.
5. Two animals with ability to camouflage with the surroundings.

Q3. What are the elements of weather?

Q4. What do you understand by the climate of the place?

Q5. How are all changes in the weather caused?

Q6. Why does the tropical region have a hot climate?

Q7. Where does the lion tailed macaque live?

Q8. What do you mean by adaptations?

Q9. Why are the animals in the tropical rainforests adapted?

Q10. What properties do make polar bears and penguins good swimmers?

Q11. By which body part, elephant can tear the bark of trees that it loves to eat?

Q12. What do you understand by weather of the place?

Q13. What are migratory birds?

Q14. What is the function of sticky pads in red eyed frog?

Q15. How do tropical rainforests support wide variety of plants and animals?

Q16. Give reasons:-

- a. Polar bears have 2 thick layers of fur.
- b. Penguins have a thick skin and a lot of fats.
- c. Polar bears are white in color.

- d. Penguins can't fly but still have streamlined body.
- Q17. The tropical rainforests have a large population of animals. Explain why it is so.
- Q18. How do elephants living in the tropical rainforest adapt themselves?
- Q19. Why do birds migrate during winters?
- Q20. Define habitat.
- Q21. Write three main differences between weather and climate.
- Q22. What do you mean by migration? Give one example.
- Q23. Explain, with examples, why we find animals of certain kind living in particular climatic conditions.
- Q24. Write the differences between Polar Regions and tropical rainforests.

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**Motion and Time**

Q1) Fill in the blanks:

- 1) 54km/hr is equal to \_\_\_\_\_ m/s.
- 2) A faster moving object covers more distance in \_\_\_\_\_ time.
- 3) The to and fro motion of an object from the position of rest is called a \_\_\_\_\_.
- 4) One complete to and fro motion of a pendulum from rest position is called one \_\_\_\_\_.
- 5) Motion of the hammer of an electric bell is \_\_\_\_\_ motion.

Q2. Define speed. State its S. I. unit.

Q3. Differentiate between uniform and non-uniform motion.

Q4. Describe a simple pendulum. Draw a diagram. What kind of motion does it show?

Q5. For a simple pendulum; define:-

- a) One oscillation
- b) Time period
- c) Frequency

Q6. A truck travels a distance of 540 km in 4.5 hours. Calculate its speed.

Q7. The distance between two stations is 1995 km. How much time it will take to cover this distance at an average speed of 19 km/h?

Q8. A car takes 20 minutes to cover a distance of 15 km. Calculate its speed in km/h.

Q9. The distance between two stations is 300 km. A train takes 6 hours to cover this distance. Calculate the speed of the train.

Q10. What are the points that should be kept in mind while choosing scale for drawing graph?

Q11. Sumit covers a distance of 2.4 Km from his house to reach her college on a scooter. If the scooter has a speed of 6m/sec, calculate the time taken by her to reach the college.

Q12. The odometer of a car reads 57321.0 km when the clock shows the time 08:30 AM. What is the distance moved by the car, if at 08:50 AM, the odometer reading has changed to 57336.0 km? Calculate the speed of the car in km/min during this time. Express the speed in km/h also.

Q13. Classify the following as motion along a straight line, circular or oscillatory motion:

- 1) Motion of our hands while running
- 2) Motion of a horse pulling a cart on a straight road.
- 3) Motion of a kid in a merry-go-round.
- 4) Motion of a child on a see-saw.
- 5) Motion of the hammer of an electric bell.
- 6) Motion of a train on a straight bridge

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**Reproduction in Plants**

**Q1) Fill in the blanks:**

- a) Mosses, ferns, moulds, etc. reproduce by \_\_\_\_\_.
- b) Asexual reproduction in spirogyra is an example of \_\_\_\_\_.
- c) Male reproductive part of a plant is \_\_\_\_\_.
- d) Plants produce seeds as a result of \_\_\_\_\_ reproduction.
- e) Mustard and Rose have \_\_\_\_\_ flowers.
- f) The seeds develop from the \_\_\_\_\_.
- g) Production of new individuals from vegetative parts of a plant is called \_\_\_\_\_.
- h) A small bulb like structure found in yeast is called \_\_\_\_\_.
- i) The male gamete on the stigma reaches the female gamete inside the ovary through \_\_\_\_\_.
- j) Male gametes are present in the \_\_\_\_\_ and the female gametes are present in the \_\_\_\_\_.
- k) After fertilization of the egg, the ovary becomes \_\_\_\_\_ and ovules become \_\_\_\_\_.

**Q2) Name the following:-**

1. Two organisms which reproduce by budding
2. The type of flower which has both the male and the female reproductive parts.
3. A plant which multiply by fragmentation.

**Q3) Very short answer type questions:**

- a) Write two examples of plants in which roots can give rise to a plant.
- b) What are the parts of a pistil?
- c) Where, fungi are grown on a bread piece?
- d) List the agents which help in cross pollination.
- e) Examples of seeds dispersed by water, wind and insects.
- f) What are spores?

**Q4) Short answer type questions:**

- Q1. Differentiate between:

i) unisexual flowers and bisexual flowers

ii) asexual and sexual reproduction

iii) self pollination and cross pollination

Q2. How is zygote formed in sexual reproduction?

Q3. How are plants benefited by seed dispersal?

Q4. How spores can survive for a long time?

Q5. In vegetative reproduction plants take less time to grow and bear flowers and fruits , than plants produced from seeds? Why?

Q6. How does the process of fertilization take place in flowers?

Q7. Write short notes on the following:

a) budding

b) fragmentation

c) spore formation

Q8. What is the significance of dispersal of seeds .

Q 9 What are the characteristic features of seeds dispersed by water and animals?

Q10. Differentiate between stamen and pistil.

**Q5) Long answer type questions:**

1) Show the diagram of the following parts of the plant:

(i) Stamen

(ii) Pistil

2) Describe the different methods of asexual reproduction. Give examples.

3) Describe the various ways by which seeds are dispersed.

4) What are the advantages of vegetative propagation?