

**Class 5
EVS****A Treat For Mosquitoes****A Find Out**

1. Do you know anyone who has had malaria?

Ans. Yes, one of my friends once suffered from malaria.

2. How did they find out that they had malaria?

Ans. It was found by blood test.

3. What problems did they have on having malaria?

Ans. My friend when she was suffering from malaria got a high fever and became too weak.

4. What other diseases can be caused by mosquito bites?

Ans. Diseases like dengue, chikungunya, filaria, etc. are caused by mosquito bites.

5. In which season is malaria more common? Why do you think this happens?

Ans. Malaria is more common during the rainy season. This is because water-logged and damp places provide a suitable breeding environment for mosquitoes.

6. What do you do in your house to protect yourself from mosquitoes? Also find out from your friends about what they do?

Ans. We use mosquito repellent in our house.

I asked my friends and found following measures being used by them:

- Mosquito repellent (they come in coils, liquids and mats)
- Mosquito repellent cream
- Mosquito nets
- Wire mesh on windows
- Keeping the surroundings clean
- Removing stagnant water from the surroundings.

7. Look at the report of the blood test given below. Which words in the report help us to know that the person has malaria?

क्लीनिकल विकृति रिपोर्ट
CLINICAL PATHOLOGY REPORT
केंद्रीय सरकार स्वास्थ्य योजना
Central Govt. Health Scheme

18/08/2007

नाम/Name..... **Rajat** आयु/Age..... **11** स्त्री या पुरुष/Sex..... **Male**

रोग की पहचान/Diagnosis..... **Fever with Chills and Rigors**
(ठंड लगकर कंपकपी के साथ बुखार)

Malarial Parasite Found in Blood Sample
(खून में मलेरिया के जीवाणु पाए गए)

Ans. In the blood test report it is clearly written that malarial parasite was found in the blood.

B	Tell
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क्लीनिकल विकृति रिपोर्ट CLINICAL PATHOLOGY REPORT केंद्रीय सरकार स्वास्थ्य योजना Central Govt. Health Scheme	
20/06/2007	15/09/2007
नाम/Name.....Aarti आयु/Age..12 स्त्री या पुरुष/Sex..Female	नाम/Name.....Aarti आयु/Age..12 स्त्री या पुरुष/Sex..Female
रोग की पहचान/Diagnosis.....Anaemia (अनीमिया)	रोग की पहचान/Diagnosis.....Anaemia (अनीमिया)
Normal Range (नॉर्मल रेंज)	Normal Range (नॉर्मल रेंज)
Haemoglobin (हीमोग्लोबिन)8 gm/dl 12 to 16gm/dl	Haemoglobin (हीमोग्लोबिन)10.5 gm/dl 12 to 16gm/dl
<i>[Signature]</i> Pathologist	<i>[Signature]</i> Pathologist

1. Look at Aarti's blood report and find out the minimum required haemoglobin.

Ans. The minimum haemoglobin level required in the blood is 12 gm/dl.

2. How much did Aarti's haemoglobin go up and how long did it take for that?

Ans. Aarti's haemoglobin increased by 2.5 gm/dl, i.e. by around 30%. It took about three months.

3. What does the newspaper report say about the problems caused by anaemia?

Ans. The newspaper report says that anaemia affects both physical and mental health of children. Due to anaemia, children do not grow properly and their energy levels are down. This affects their study as well.

4. Have you or anyone in your family ever needed to get a blood test? When and why?

Ans. Yes, my mother had to go for a blood test about six months back. She was suffering from fever.

5. What was found out by the blood test?

Ans. The blood report said that my mother was suffering from malaria.

6. Have you had a health check up in your school? What did the doctor tell you?

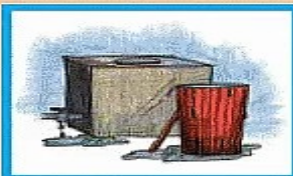
Ans. Yes, there was a health check up camp in my school, about three months ago. The doctor said that I was fit and healthy.

C Find Out

1. Ask a doctor or elders about the food items which contain iron.

Ans. I asked my father and he told that green leafy vegetables like spinach, lettuce and cabbage contain iron.

D Find Out and Tell



Are you inviting mosquitoes?

BEWARE!

They Spread Malaria, Dengue, Chikungunya!

- * Don't let water collect around your house. Fill up the pits.
- * Keep the water pots, coolers and tanks clean. They should be dried every week.
- * Use mosquito nets to protect yourself.
- * Spray kerosene if water has collected at some place.

1. Have you seen any poster like this put up anywhere?

Ans. Yes, I have seen such posters near my school.

2. Who do you think puts up such posters, or gives ads in the newspaper?

Ans. The government would have been putting up such posters and giving information in the newspaper.

3. What are some of the important points given in the poster?

Ans. The important points in the poster are as follows:

- Beware of mosquitoes as they cause serious diseases like malaria, dengue and chikungunya.
- Don't allow water to stagnate around you.
- Clean your surroundings to rule out breeding grounds for mosquitoes.
- Fish can be put in ponds to remove mosquito larvae.
- Mosquito net should be used to prevent against mosquito bites.
- Kerosene oil should be sprayed on water to prevent mosquito eggs to grow.

4. Why do you think pictures of a tank, cooler and pits are shown in the poster?

Ans. Because these are the stuff where breeding of mosquitoes can take place if they are waterlogged or are not cleaned up regularly.

E	Think
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1. Why do you think it talks about putting fish in the tank? What do you think the fish eat?

Ans. It talks so because the fish eats larvae of mosquito.

2. What will happen when oil is spread on the water?

Ans. The thin film of oil on water prevents oxygen supply to eggs and larvae of mosquitoes and thus they are killed.

F	Find out
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1. Which diseases are spread by flies and how?

Ans. Flies spread dysentery, cholera, typhoid, anthrax, etc. Flies are easily attracted by filth. They used to sit on dirty and filthy matters. Again when these sit on the food, microbes are mixed in food. From there these can enter the human body.

G	Mosquito Check
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1. Divide your class into two or three groups. Each group will go around to check one area in school or around it. It must carefully note if water has collected anywhere, and mark (right) where it finds stagnant water.

Pot Cooler Tank Any open space in the
school ground Gutter Any other place _____

Ans. Pot, Cooler, Tang, Gutter, and Any other place- Drainage

2. For how many days has water collected there?

Ans. For almost 8-10 days water has been collected there.

3. Who is responsible for keeping these places clean?

Ans. Within the school premises, it is the responsibility of the school authority while outside the school, the local municipality is responsible for the same.

4. Who is supposed to get the gutters and drains repaired?

Ans. The municipality is supposed to get the gutters and drains repaired.

5. Can any larvae be seen in the collected water?

Ans. Yes, the larvae of mosquitoes can easily be seen in the collected water.

6. Has it caused any problems in the area?

Ans. Yes, it is causing many problems. The entire area is turned into a mess and breeding place of mosquitoes and germs.

H Make a Poster

1. In your group, make a poster with a message to keep the cooler, tank, drains, and the area clean (wherever water collects). Put up your poster in and around your school.

Ans.



2. Find out who is responsible for keeping the area around your school clean. Write a letter from your class, reporting your findings and suggestions. Find out to whom the letter should be written, and to which office it should be sent.

Ans. The local municipality is responsible for keeping the area around our school clean. So, the letter should be addressed to the Mayor and be sent to the local municipal corporation office.

Letter to the Mayor

To,
The Mayor,
Municipal Corporation of Delhi,
New Delhi.

Subject: Request for better cleanliness around Sarvodaya Vidyalaya, Rohini,
Sector-8

Respected Sir,

Through this letter, we the students of Sarvodaya Vidyalaya, Rohini, Sector-8 went to bring to your notice the fifth and garbage collection around the school. The entire area has been turned into a mess and become a haven for stray dogs and germs. Last week's heavy rains have only aggravated the situation. The drains and pits are waterlogged and became the breeding ground of mosquitoes.

So, you are requested to look into the matter immediately and order to clean up garbage in the area.

Thanking you,
Your Sincerely,
Student of Class V
Sarvodaya Vidyalaya
Sector-8 Rohini
Delhi

I Tell

Is there a pond or river around your house or school? Go and look around and observe these things:

1. Can you see algae in or around the water?

Ans. Yes, I can see algae in or around the water.

2. Where else have you seen algae?

Ans. We saw it near drains, hand pumps, on damp walls, etc.

3. Are there plants growing on the side or in water? Find out their names. Draw some of these in your notebook.

Ans. Some of the plants which grow on the side or in the water are liverworts, mosses, etc.



Mosses



liverworts

4. Do you think these were planted by someone or did they grow on their own?

Ans. They grow on their own.

5. What else can you see in water? Make a list.

Ans. Besides algae, small fishes, frogs, larvae, floating insects and mosquitoes are also seen.

J What We Have Learnt

1. What can you do so that mosquitoes do not breed in your house, school and neighbourhood?

Ans. You can do following to prevent mosquito breeding in your house, school and neighbourhood:

- Do not allow water logging in the area around you.
- Clean the cooler and water tank regularly.
- Spray DDT and kerosene oil in drains pits, etc.
- Cultivate fish in nearby ditches, pits, ponds, etc.

2. How can you find out if someone has malaria?

Ans. If the blood test shows malaria parasite, then malaria is confirmed in that person.