

The image features four green speech bubbles arranged in a 2x2 grid. Each bubble contains a question mark. The top-left bubble is solid green with a white question mark. The top-right bubble is a green outline with a green question mark. The bottom-left bubble is a green outline with a green question mark. The bottom-right bubble is solid green with a white question mark. A central yellow rectangular box contains the text.

Why do doctors suggest wearing a mask to prevent spreading of flu?



Infectious diseases

We will:

- learn the features of infectious diseases;
- understand the prevention and treatment of infectious diseases.



Key terms:

Infectious disease - disease which spreads quickly between organisms



Terminology:

<http://tiny.cc/quizletinfectiousdiseases>



- Many diseases of human, animals and plants are caused by microorganisms such as fungi, bacteria, virus or protists.
- Microorganisms can infect vital organ and lead to problems in body function



*Some diseases caused by
microorganisms*



Protist



- *Amoebic dysentery* (қантышқақ) is a disease caused by *Entamoeba histolytica* that results in bloody diarrhea and abdominal pain.

- *Leishmaniasis* (лейшманиоз): caused by a protist called *Leishmania*. Symptoms are skin ulcers, fever, low red blood cells, enlargement of spleen and liver.

Fungi

- *Late blight (potato blight)*: caused by a kind of water mold. It destroys tomato and potato plants. Infected plants may rot within two weeks.

Virus



- *Herpes*: symptoms are cold sores in the face, mouth, throats and genitals. Spread by the direct contact of body fluids.

Bacteria



```
graph TD; Bacteria --> Cholera; Bacteria --> Diphtheria;
```

- *Cholera*: Symptoms are diarrhea vomiting and muscle cramps. It is spread by contaminated water and food.

- *Diphtheria*: Symptoms are sore throat, fever, cough. It is spread by direct contact between people or by air.

Activity

Imagine that you are a microorganisms detective. Choose one disease from the table, and make a poster about it. In the poster give information about microorganisms causing this disease. What can be done to prevent spreading of these disease? Make a prevention strategy and present it in the class.



Literacy

1. Is there any relationship between hygiene and preventing infectious diseases? Explain your answer with examples.
2. Which of the illnesses you have studied in this chapter is the most common in your country?
3. Why is it advised to change your medical face mask every 2 hours?

