

1. **Kyustendil**

In a hot summer day two children bathe in the river to cool off. On the next day they come out in a rash on the skin. When biologist analyzing the riverbed they found contamination. What will be observed on the microscope slide?

2. **Sofia**

Nettle

During the preparation or the IYNT, the Bulgarian team from Sofia worked in different locations, such as one of the big parks in the city. Being really concentrated on his work, but also really tired, Victor Mirev decided to sit on the grass. Seconds later he screamed in agony. What was supposed to be grass was actually nettle. This unfortunate situation made the biologists in the team wonder how does nettle sting. Investigate how and why do nettle leaves sting.

3. **Russia**

If we freeze water droplet on a substrate, it will become cone-like. Investigate and explain this effect.

4. **Serbia**

We went on a trip to a foreign country, and brought a lot of chocolate with us, since our mentor is a huge fan of chocolate. She put it in the fridge to cool off, until we return from the beach. But, when we returned, we found out that all the chocolate was missing! Anger boiling in each one of us, we decided to use the only instrument we had, the UV lamp and low-power microscope with magnification of 60, and find out who's standing behind this terrible crime.

5. **Nigeria**

6. **Georgia**

There are many kinds of toothpastes and most people think that their main goal is to kill the harmful microbes in our mouth. We have to find out which toothpaste is the best for this purpose and compare cheap ones with expensive.