



THIS SHEET IS USED BY CHAIRPERSON ONLY

Captains are asked if they hear the Chairperson clearly.

Chairperson reads the first task aloud. Everyone in the Group hears the task.

The answers are provided by Captains in direct messages to the Chairperson.

The time to answer each question is **20 seconds, including the time of typing.**

After collecting the answers, Chairperson moves on to the second task etc.

Points for any problem can be either **0** (invalid, absent, incomplete, unintelligible or wrong answer) or **1** (correct answer).

All answers and number of points are public.

The winner is determined by the maximum number of correct answers.

In case of a tie, an extra question 6 is offered, and the Captain with the best answer gets an extra 1 point.

The screenshots of answers are submitted to the Scoring Commission for archiving.

All scores (including an extra point in a tie breaker) and the winner are recorded in Science Fight Protocol.

9th IYNT 2021: Captain's Contest for Science Fight 4

1. A DNA analysis of body louse (*Pediculus humanus corporis*) by Stoneking *et al.* indicated that it diverged from head louse (*P. h. capitis*) ca. 70,000 years ago. It allowed dating a major development in human society for which no archaeological evidence existed. What development was it?
2. Protium, deuterium and tritium are isotopes of what chemical element?
3. Below is given a list of five chemical elements. Indicate the only one which is **not** a metal. Calcium (Ca), Gallium (Ga), Krypton (Kr), Osmium (Os), Uranium (U)
4. Snails have teeth. Is this statement true or false?
5. Which of the following gases is a noble gas?
Argon (Ar), Carbon dioxide (CO₂), Oxygen (O), Nitrogen (N)

Do not ask the question below unless a tie breaker is announced

6. The International Young Physicists' Tournament was founded in 1988 and is well-known to many participants and jurors of the IYNT. Estimate the total number of grades that jurors have given to teams during the 34 years of the IYPT.