**Control work for the unit «Science & scientific phenomena»**

**Task 1. Writing. An article about a famous person**

**Kanysh Imantayuli Satbayev**  (April 11, 1899 – January 31, 1964) is one of the founders of [Soviet](https://en.wikipedia.org/wiki/Soviet_Union) [metallogeny](https://en.wikipedia.org/wiki/Metallogeny" \o "Metallogeny), principal advocate and the first president of [Kazakhstan Academy of Sciences](https://en.wikipedia.org/wiki/Kazakhstan_Academy_of_Sciences).

**Achievements**

Doctor of [Geological](https://en.wikipedia.org/wiki/Geologic) and [Mineralogical Sciences](https://en.wikipedia.org/wiki/Mineralogy) (1942)

Professor (1950)

Academy of Sciences of the [Kazakh SSR](https://en.wikipedia.org/wiki/Kazakh_Soviet_Socialist_Republic) (1946)

Member of the [USSR Academy of Sciences](https://en.wikipedia.org/wiki/Academy_of_Sciences_of_the_Soviet_Union) (1946)

The first president of the Academy of Sciences of the Kazakh SSR

Kanysh Satbayev left after himself more than 640 scientific publications.

He created Institute of Geology which became the center of studies of [Kazakhstan](https://en.wikipedia.org/wiki/Kazakhstan) mineral resources.

**The main discovery:** Ulutau-Dzhezkazgan copper deposit that was on at the time the largest projected reserves.

An article about a famous person usually includes:

* an introduction which introduces the person
* a main body of two or three paragraphs (early life & latter life) with details and dates, achievements and death in chronological order
* a conclusion with final comments

**Criteria:**

* use an article structure [2]
* write 10 sentences or more [2]
* use Past Simple Passive to describe scientist’s achievements [2]
* use correct grammar and spelling [2] **[10]**

**Task 2. Listening.**

**Go to the link** [**https://learnenglishteens.britishcouncil.org/skills/listening/b2-listening/new-inventions**](https://learnenglishteens.britishcouncil.org/skills/listening/b2-listening/new-inventions)

**Check your understanding: gap fill**

**Do this exercise while you listen. Write the word to fill the gaps.**

1. Wingsuits are not very \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, but the modern ones are better than ever.

2. Last October was the first ever wingsuit world \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in China.

3. You can buy a wingsuit for 600 to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dollars.

4. The water distiller is for places where it’s hard to get clean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water.

5. To produce the water distiller properly, they still need help with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. The ‘enable talk gloves’ were invented by some Ukrainian \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

7. The gloves use sensors to turn sign language into \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and then into spoken

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

8. James Cameron was part of a team which designed a submarine capable of descending to

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ kilometres down.

9. James Cameron was the first person to do a solo \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ so deep under the sea.

10. MIT students have invented a product that helps people get the contents out of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**[10]**

**Total [ \_\_\_\_\_20]**

**Transcript for New inventions**

Presenter: Welcome to Tech Today! This week it’s National Science and Engineering Week, so to

celebrate we asked Jed our science correspondent to give us a round-up of new inventions.

Jed: Hi, yes, I’ve got some very interesting things to tell you about today, starting with a fun one: wingsuits,

those suits that look like bats and allow people to fly, or glide, at least. They’re the ultimate in cool.

Presenter: But they’re not very new, are they?

Jed: Well, no, but the modern ones are better than ever and last October was the first ever world

championship in China. The price is coming down, too. Now you can buy one for 600 to 2,000 dollars. It’s

still too expensive for me, but I suppose it’ll keep coming down.

Presenter: OK, what about useful new inventions?

Jed: There are lots of those. There’s a new solar water distiller created by Gabriele Diamanti aimed at

parts of the world where it’s hard to get clean drinking water. You pour in salty water and let the sun do the

work for a few hours. Then, hey presto! You have clean water! It’s a very simple device and fairly cheap to

produce.

Presenter: Can I hear some doubt in your voice?

Jed: Well, they still need help with investment to start producing the distiller properly. So if anyone out

there has money to invest in a great product …?

Presenter: Absolutely. Get in touch with the designers.

Jed: Another useful invention which it would be good to see in production are ‘enable talk gloves’. These

were invented by some Ukrainian students to allow people with speech and hearing impairments to

communicate with people who don’t understand sign language. The gloves use sensors to translate sign

language into text, then into spoken language using a smartphone. A brilliant invention!

Presenter: Yes, that could benefit thousands of people.

Jed: Another useful invention comes from a surprising source, James Cameron, the film director.

Presenter: The Titanic director?

Jed: The very same. Cameron was part of a team, headed by engineer Ron Allum, which designed the

Deepsea Challenger Submarine, capable of descending to the lowest parts of the sea, 10km down. Last

year Cameron went down to the bottom of Challenger Deep, the deepest part of the sea in the world. He

was the first person to do a solo dive there, and he stayed for three hours, the longest time so far.

Presenter: That sounds impressive!

Jed: Yes. We know so little about what’s at the bottom of the ocean, and it’s important to find out more.

OK, so now for something useful in a different way. You know that feeling when you’re trying to get tomato

ketchup out of a bottle and it won’t come out, but you’re sure there’s lots more in there?

Presenter: Yeah, of course. It’s really annoying.

Jed: Well, a team of students at MIT, the Massachusetts Institute of Technology, have come up with a new

product that you use to coat a glass or plastic bottle, and then what’s inside, hair gel or mustard, or

whatever, comes out really easily.

Presenter: So, it saves hours of frustration trying to get stuff out of bottles?

Jed: Exactly. Right, now for my favourite invention. This is really silly, but I love it. It’s a way of producing

clouds indoors.

Presenter: Clouds?

Jed: Yes. A Dutch artist has come up with a way of forming perfect, small, white clouds inside. They’re just

beautiful. I don’t think you can do it yourself at home yet, though.

Presenter: I don’t think I’d want to.

Jed: Oh, you would if you’d seen the photos. They’re amazing.

Presenter: OK, Jed, thanks for that. We’ll leave you with your head in the clouds and see you again next

week!

**Descriptor :**

1. new
2. championship
3. 2000 (or two thousand)
4. Drinking
5. Investment
6. Students
7. Text, language
8. 10 (or ten)
9. Dive
10. Bottles

