

## CS1 Unit 1 Japanese Scientist 1 Hideki Yukawa (p. 6)

- Asking the meaning of a word or phrase you don't know
- Explaining the meaning of a word or phrase in English

A: What does the {word | phrase} X mean?

B: The {word | phrase} X means ....

A: Can you tell me what the {word | phrase} X means?

B: Yes. The {word | phrase} X means ....

A: I don't know what the {word | phrase} X means.

B: Shall I tell you what it means?

A: Yes, please.

B: The {word | phrase} X means ....

degree	elementary particles	intellectual	manifesto
neutron	Nobel Prize	nuclear disarmament	physics
proton	specialize in		

1. a title or qualification that students get when they finish all their necessary university courses
2. to become an expert in a particular area of study
3. the scientific study of matter and energy and the relationships between them
4. any of the different types of pieces of matter that make up atoms
5. a very small piece of matter in the nucleus of an atom that has a positive electric charge
6. a very small piece of matter in the nucleus of an atom that has no electric charge
7. an international prize given every year for excellent work in physics, chemistry, economics, and so on
8. a written document in which a group of people say what they believe in and what they want to do
9. a country's act of reducing the number of nuclear weapons it has
10. a well-educated person who is interested in serious topics such as science and literature

### [pair work]

A: Read a sentence. Use the correct verb form.

B: Choose yes/no or a wh-word.

A: Ask a yes/no question if B chose yes/no. Ask a wh-question if B chose a wh-word.

Change roles and go to the next sentence.

1. Hideki Yukawa (be) born in Tokyo in 1907.  
→ yes/no, where, when
2. Hideki Yukawa (grow) up in Kyoto.  
→ yes/no, where
3. Hideki Yukawa (take) a degree from Kyoto Imperial University in 1929.  
→ yes/no, what, which university, when
4. Hideki Yukawa (specialize) in theoretical physics. (in the past)  
→ yes/no, what
5. Hideki Yukawa's theory (explain) the interaction between protons and neutrons. (in the present)  
→ yes/no, whose theory, what
6. Hideki Yukawa's theory (influence) research into elementary particles. (in the present perfect)  
→ yes/no, whose theory, what

**[pair work]**

A: Ask a yes/no question or a wh-question.

B: Answer the question with SA + FU.

Change roles and go to the next sentence. To add an FU, you might need to go back to the textbook.

Example

sentence: Hideki Yukawa studied the theory of elementary particles.

A: What did Hideki Yukawa study?

B: [SA] The theory of elementary particles. [FU] He received the Nobel Prize in Physics in 1949.

8. Hideki Yukawa published his theory of mesons in 1935. → yes/no, what, when

9. Hideki Yukawa became a professor in Kyoto University in 1940. → yes/no, what, when

10. Hideki Yukawa received the Nobel Prize in Physics in 1949. → yes/no, who, what, when

11. Hideki Yukawa joined other scientists in signing the Russell–Einstein Manifesto. → yes/no, who

12. Hideki Yukawa signed the Russell–Einstein Manifesto in 1955. → yes/no, what, when

13. The Russell–Einstein Manifesto called for nuclear disarmament. → yes/no, what

14. Hideki Yukawa died at his home in Kyoto in 1981. → yes/no, where, when