## CS2 Unit 1 Grammar and Vocabulary Activities, based on Japanese Scientist 6 (p. 7)

[1 all work] A. what does A mean: B. The {hour   adjective   vero} A means	
words	definitions
nucleus	the study and treatment of diseases and injuries
gene	the central part of a cell that contains the genetic material
egg	the scientific study of the normal functions of living things
cell	a unit inside a cell which controls a particular quality in a living
	thing that has been passed on from its parents
medicine	the smallest unit of living matter that can exist on its own
physiology	a cell that combines with a sperm to create a baby or young animal

Combine the words and their meaning.

[Pair Work] A: What does X mean? B: The {noun | adjective | verb} X means ....

Ask wh-questions to find the underlined information. Answer them with SA + FU. Turn each sentence into a yes/no question and a tag question.

- 1. Shinya Yamanaka was born in 1962.
- 2. Shinya Yamanaka was born in Osaka, Japan.
- 3. Shinya Yamanaka won the Nobel Prize for Physiology and Medicine in 2012.
- 4. Shinya Yamanaka won the Nobel Prize for Physiology and Medicine in 2012.
- 5. Shinya Yamanaka discovered the method of reprogramming mature cells to become pluripotent.
- 6. Our lives begin when a fertilized egg divides and forms new cells.
- 7. These new cells become increasingly varied over time. (Use which cells.)

## Combine the two sentences with a relative pronoun.

- 8. The scientist won the Nobel Prize for Physiology and Medicine in 2012. He was born in 1962 in Osaka, Japan.
- 9. A fertilized egg divides and forms new cells. They in turn also divide.
- 10. A fertilized egg divides and forms new cells. They are identical in the beginning.
- 11. It was long thought that a mature cell could not return to an immature state. It has been proven incorrect.

12. <u>This modified egg cell grew into a new frog</u>. <u>This proves that the mature cell still contained all the genetic information</u>.

13. The mature cell still contains the genetic information. It is needed to form all types of cells.

## Turn the sentences into the passive voice.

- 14. Shinya Yamanaka won the Nobel Prize for Physiology and Medicine in 2012.
- 15. People can reprogram mature cells to become pluripotent.
- 16. People have proven this incorrect.
- 17. John Gurdon removed the nucleus of a fertilized egg cell from a frog.
- 18. People need the genetic information to form all types of cells.