[Shinya Yamanaka]

[1] Warm-up

- Professor Shinya Yamanaka, the director of the Center for iPS Cell Research and Application, Kyoto University, is known for creating iPS cells. What are iPS cells? What might be possible for us to do with iPS cells in the future?
- -Listen to the explanation and take notes in boxes ① to ④ below.

For now this is still an imaginary story, but Professor Yamanaka is trying hard to make his dream come true. 4 [Key Words] reject ① [Key words] lung disease, remove ② [Key words] skin cells Regenerated organ iPS cells from iPS cells ③ [Key words] be put back into ~

[2] Getting Information

-Watch the interview and catch what Professor Yamanaka says about the points below.

Topics	Questions		Points in listening
His high school days	1	What kind of student	(His favorite subjects)
	1	was he?	(The sports he played)
	2	What happened about twenty years ago?	
His life as a researcher	3	Why did he leave Japan?	(About the "knockout" technology) + (About the US)
	4	How are scientists in the US different from those in Japan?	(Scientists in the US) ↓ ↑ (Scientists in Japan)
Communicating in English	5	How long has he been learning English?	
	6	What trouble did he have at a hotel in the U.S?	<pre>(What he asked at the front desk)</pre>
	7	Why does he need to use English in Japan?	<pre>(What English is for scientists) ↓ (What he's still doing in Japan) ↓ (What he has to do)</pre>
	8	How can we study English in Japan?	(What we can do without paying a lot of money)
His research & iPS cells	9	What research does he want to do in the near future?	<pre>(What they can do now) ↓ (What they hope to do using the technology)</pre>
	10	Why did he name the new stem cells "iPS cells"?	<pre>(What he wanted to do) ↓ (What he decided to do)</pre>

[3] Professor Yamanaka's Message	
- Catch what he says to high school st	udents in Japan.
" Don't "	
"Don't	"
" You should	
[4] Role Play (Pair Work)	
·	ee questions from [2] "Getting Information" or
the previous	
	swer the questions looking at what you wrote
	vn on the sheet.
[5] What Do You Think? (Group Work)	
	you are high school students, you have th
	at do you think he means? Exchange your idea
with your friends.	1
You	Your friends
(Key words only!)	Name:
	Name:
	Name:
	Name:
[6] WRITING: "What I Learned From M	y Failure"
(What you experienced)	
(What you experienced)	
(What you learned)	
(

(教師用資料)

[1] Warm-up の教師による Oral Introduction 発話例

For now this is still an imaginary story, but Professor Yamanaka is trying hard to make his dream come true. (ワークシート 1 枚目の吹き出しと同じ)

- ① Imagine that this person is suffering from a bad lung disease. His doctors suggest removing one of his lungs. But with only one lung it would be harder for him to breathe.
- ② Thanks to Professor Yamanaka and his team, iPS cells are created from his skin cells. iPS cells are so special that they can be grown into any cell part of his body.
- ③ If the iPS cells were grown into a lung, the lung could be put back into his body.
- ④ With the two lungs, you would get better. Since the new lung is made from his own skin cells, his body would not reject it.