



SEAMEO  
School Network



筑波大学  
University of Tsukuba

[ Lesson 4 ]

## Practices to Enhance Thinking Skills

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INTERNATIONAL  
PACIFIC  
UNIVERSITY  
環太平洋大学

### Warming-up Activity

Please prepare  
2 pieces of paper  
and express your idea of  
“Life” and “Learning”  
with just a piece of paper.

Allotted time is 3 minutes.

Then, firstly,

**Life**

Let's start !

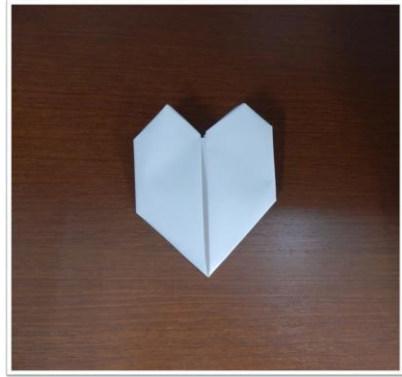
Then, next,

**Learning**

Let's go !

Now, everyone,  
please show your work and  
explain it.

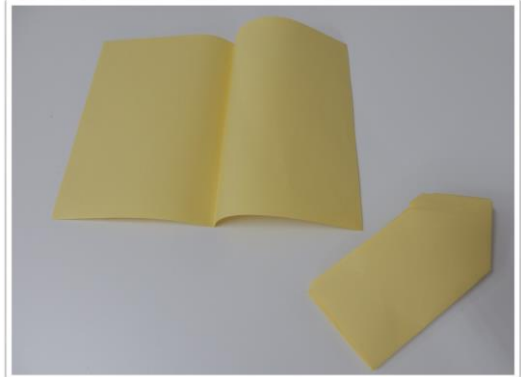
Example for "Life" ①



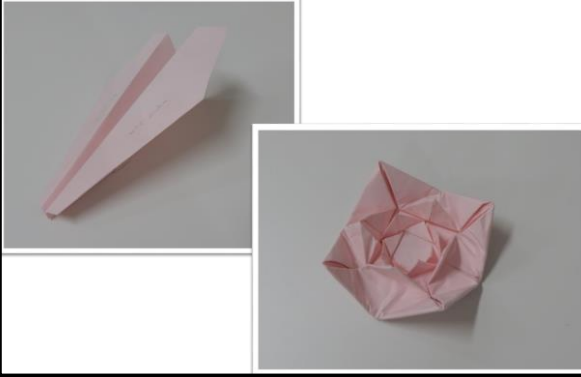
Example for "Life" ②



Example for "Learning" ①



Example for "Learning" ②



Example for "Learning" ③



Did you notice anything?



Generalization

Concrete → Abstract

Understanding by seeing



Understanding with explanation

## Thinking?



**What you think is what you are.**



Your thinking itself proves your existence.



International Baccalaureate  
To enhance thinking skills in TOK

## Critical Thinking

## What is critical thinking?

What do you think critical thinking is?  
What kind of image do you have for critical thinking?

Please think and  
tell your ideas.



## What is critical thinking?

Please tell your ideas about your critical thinking on this spreadsheet. ↓

<https://docs.google.com/spreadsheets/d/1Vb47ekVZsMn3yd4qZnBv2arGpmOG7bqa7OYvTImAUcQ/edit?usp=sharing>

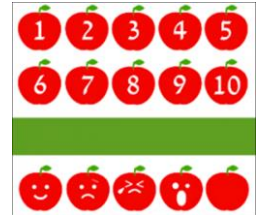


Please pause the video for 5 minutes to think of this question.  
If possible, write your ideas on this spreadsheet above. ↑

## Practices

### Q1

Even in modern time, there is a tribe that has only numbers as 1, 2, and many. If we do not have countable numbers, how different would our world be?



### Q1

Please tell your ideas about your critical thinking on this spreadsheet. ↓

<https://docs.google.com/spreadsheets/d/18-Q7htpGLhFOoQL3NDyUkp3PGKyqdkL-81Ms03cpfw4/edit?usp=sharing>



Please pause the video for 5 minutes to think of this question.  
If possible, write your ideas on this spreadsheet above. ↑

## Practices

### Q2

The fact that the earth is round is the same fact as the picture below shows.

- A Same fact
- B Not same fact



<https://yahoo.jp/QQo8rE>

Please answer A or B and explain why you think so.

## Q2

Please tell your ideas about your critical thinking on this spreadsheet. ↓

[https://docs.google.com/spreadsheets/d/1PB9\\_efJzB5loBfU\\_bG9exDBMEoXHNEPPgB9VNyiDeifc/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1PB9_efJzB5loBfU_bG9exDBMEoXHNEPPgB9VNyiDeifc/edit?usp=sharing)



Please pause the video for 10 minutes to think of this question. If possible, write your ideas on this spreadsheet above. ↑

## Critical thinking

Most people in Japan regarded critical thinking with a negative image because of the Japanese translation “Hihanteki” which usually means to complain.

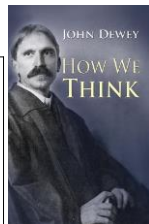
But critical thinking is not the thinking which depends on basic emotion, one-side perspective, or superficial thought.

What kind of image do you have for the term “critical thinking”?

## What is critical thinking?

### The definition by John Dewey

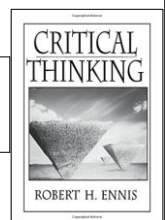
Dewey (1910)	<p><b>Reflective thought</b> Active, persistent, and careful consideration of any belief or supposed form of knowledge in the light of the grounds that support it, and the further conclusions to which it tends. (Dewey, 1910, p.6)</p>
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## What is critical thinking?

### The definition by Robert H. Ennis

Ennis (1995)	<p>Critical thinking is reasonable and reflective thinking focused on deciding what to believe or do.</p>
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## Video 1 Critical thinking

5 tips to improve your critical thinking (4:29)  
– Samantha

Agoos



<https://youtu.be/dltUGF8GdTw>

## 5 tips to improve your critical thinking

1. Formulate your question
2. Gather your information
3. Apply the information
4. Consider the implications
5. Explore other points of view

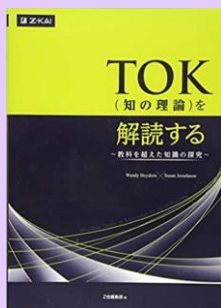
## Discussion ①

Please consider the next questions about critical thinking and tell your opinions.

### 【Reference】

Z-KAI (2016)  
Decoding Theory of Knowledge  
for the IB Diploma

P.124



## Discussion ①

Please consider the next questions about critical thinking and tell your opinions.

### Q3

- ◆ Think of examples who you would describe as internationally minded.
- ◆ What attitudes and actions would you associate with someone who is internationally minded?
- ◆ Is speaking English or a foreign language essential for people with global perspectives?

[https://docs.google.com/spreadsheets/d/1R9swNoq0d61to1TLTRH\\_-6dEwDxaYBzbSbTGJEmYtyU/edit?usp=sharing](https://docs.google.com/spreadsheets/d/1R9swNoq0d61to1TLTRH_-6dEwDxaYBzbSbTGJEmYtyU/edit?usp=sharing)



Please pause the video for 10 minutes to think of this question. If possible, write your ideas on this spreadsheet above. ↑

## Discussion ②

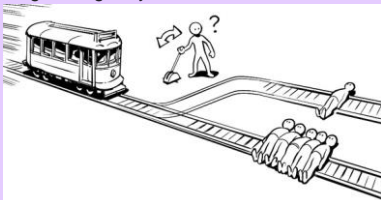
The next question is more profound.  
This is well-known as a trolley problem.

Please think it with more critical thinking.

## Discussion ②

There is a runaway trolley barreling down the railway tracks. Ahead, on the tracks, there are five people tied up and unable to move. The trolley is headed straight for them. You are standing some distance off in the train yard, next to a lever. If you pull this lever, the trolley will switch to a different set of tracks. However, you notice that there is one person on the side track.

What is the right thing for you to do?



<https://yahoo.jp/uBcgrv>

<https://forms.gle/ur3UPegKCmA1jf5y9>



Please pause the video for 10 minutes to think of this question. If possible, write your opinions on this google-forms above. ↑



## Discussion ②

Video 2 **JUSTICE**

What's The Right Thing To Do? (54:56)

Episode 01 "THE MORAL SIDE OF MURDER"



<https://yahoo.jp/Qgp9Dk>

You can find this video in official website of Harvard University.  
<https://youtu.be/kBdCfR-8hEY>



<https://yahoo.jp/OTMCLK>

[ Lesson 4 ]

## Practices to Enhance Thinking Skills

Thank you for participating.

See you in Lesson 5.

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