中国科学院大学
University of Chinese Academy of Sciences

Academic Writing
-Basic Course-

Autumn 2017
Class 11 – Mo Dec 8th

General Course Questions
Please use any time

https://www.wenjua n.in/ s/mEje qyu/

Schedule

December 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	Dec 1	2
3	4	5 class 12 PKU o...	6	7 class 12 - UCA...	8 class 11 UCAS-M	9
10	11 class 12 UKAS-...	12 class 13 PKU -...	13	14 class 13 UCAS...	15 class 13 UCAS...	16
17	18 class 14 UCAS...	19 class 14 PKU -...	20	21 class 14 UCAS...	22 휴포 class 15 UCAS...	23
24	25 조물주	26 class 15 PKU	27	28 class 15 UCAS...	29	30

Speaking of Science

We really need to figure out how to stop a killer asteroid, scientists say

By Sarah Kaplan

Rewrite as:
'According to scientists, it is important to...'

https://www.wenjua n.in/ s/n AVraq/
Time: 5 min

Survey Class 2 – Article 7
Battery Waste

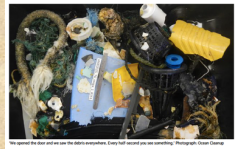
https://www.wenjua n.in/ s/JB n AN n/
Time: 15 min

Presentation 7
Friday Dec 8th

Pacific Garbage

'Great Pacific garbage patch' far bigger than imagined, aerial survey shows

Giant collection of fishing nets, plastic containers and other discarded items called a 'ticking time bomb' as large items crumble into micro-plastics



Class 1

Battery Waste

The rise of electric cars could leave us with a big battery waste problem

Carmakers, recyclers and tech start-ups are working to solve the question of how to deal with lithium-ion batteries when they wear out

Class 2

Presentation 8

Friday Dec 15th

Organic Farming in Cuba

Class 1

Dr Con Man

Class 2

Student Summary Comments – Battery Waste

How to make a more inclusive and informative conclusion of an article?

Hence we talked about "and" in recent course, I noticed a sentence with 4 "and". That is " Not only do the batteries carry a risk of giving off toxic gases if damaged, but core ingredients such as lithium and cobalt are finite and extraction can lead to water pollution and depletion among other environmental consequences."

Next I got "flabby" this time because I used too many passive voice, is it good if I used many passive voice?

Is it a feasible way to summarize the Chinese notes in the reading process into English?

Student Writings – Battery Waste

In conclusion, measures need to be taken to deal with battery waste problem.

->
In conclusion, with the increase of electric cars, the issue of recycling batteries is urgent. Worn-out batteries can cause serious environment problems. Therefore, governments should make politics to address the problem. Furthermore, engineers should redesign the battery for better recycling and battery recycling should not limit in recycling facilities.

Student Writings – Battery Waste

In conclusion if we don't re-use them we could be making our environmental problems worse, so we must take actions right now.

Then, the author present us why the electric cars can and should be recycled for lithium-ion battery having so steep size and resulting in the environment problem respectively.

And in order to solve the problem and release the status, various projects, climates and tech has been invented and applied.

Student Writings – Battery Waste

Which is obviously great, however, what we can do to solve the problem about battery pollution?

Actually, two problems described about solving battery waste.

Example – Pacific Waste

The article "Great Pacific Garbage..." written by Oliver Milman, was published in the Guardian newspaper on June 4th 2016.

In this article, the author discusses how relentless deposing of plastic waste has resulted in a continuously growing patch of floating garbage located in the pacific region between Hawai and California. The author also discusses the findings of a small company 'Ocean Cleanup' founded by Boyan Slat, aiming at solving this problem by funneling floating waste into a cone, allowing the waste to be collected. In addition, the article provides statistical data showing how much waste is floating in the ocean, with estimates for 2014 indicating approx. 5 trillion tons, or nearly 2% of global plastic production.

In conclusion, the article shows that it is paramount to rethink the impact of human activity on Earth's biosphere, otherwise the long-term survival of life on this planet will become critically endangered.

Example - Battery

The article "The rise of electric cars..." written by Joey Gadiner, was published in the Guardian newspaper on August 10th 2017.

In this article, the author discusses how the anticipated increase in electrical cars raises the question as to how to manage the resulting problem of used lithium batteries. The article provides an overview of current solutions to this problem, including recycling of the metals used in batteries as well as the re-use of car batteries for domestic purposes. The article states that a current lack of technology required to cost-effectively recover battery lithium represents one of the major challenges for recycling strategies. In addition, evolving recycling companies lack the information essential for effective recycling.

In conclusion, the article shows that it in order to prevent replacing one environmental problem with a different problem, a more integrated approach of producing batteries is required, allowing for a production and recycling system that considers the complete life cycle of a battery.

Summary Writing 8
Class 1

https://www.wenjuan.in/s/Bzye2q/

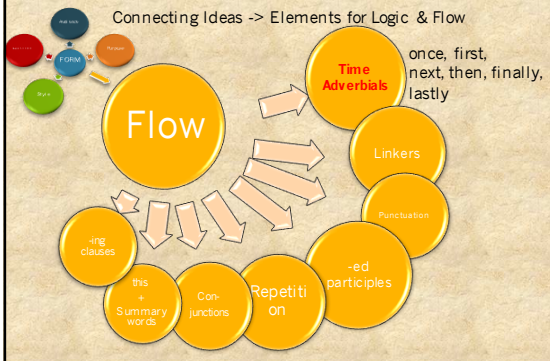
Deadline: 周四 晚上的十点

Summary Writing 8
Class 2

https://www.wenjuan.in/s/uum6Nrq/

Deadline: 周四 晚上的十点

Connecting Ideas -> Elements for Logic & Flow



Connecting Ideas -> Elements for Logic & Flow

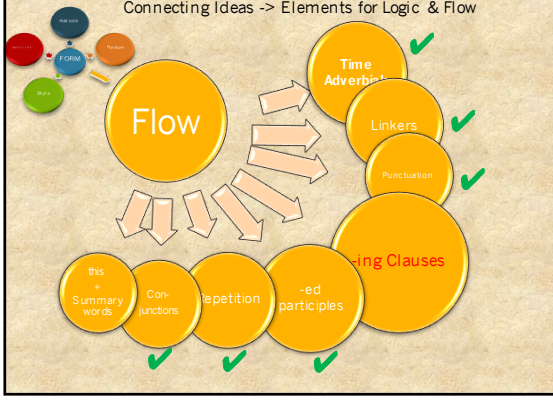
time adverbials

Version improved by using time adverbials:

First, the virus strains most likely to cause disease were identified and three were selected for vaccine development. The virus samples of each selected strain were **then** injected into separate batches of fertilized eggs to amplify the amount of virus. Each virus strain was grown separately inside the eggs over the course of several days, after which it was harvested, inactivated, and purified. **Lastly**, the purified virus strains were **(then)** combined to create the vaccine, blended with a carrier fluid and **finally** dispensed into vials.

AWG, p127

Connecting Ideas -> Elements for Logic & Flow



Connecting Ideas -> Elements for Logic & Flow

-ing clauses

Example 1:

The magma flows into the pores of the rocks; *as a result*, the rocks rupture.

-> The magma flows into the pores of the rocks, *thus causing* them to rupture.

Connecting Ideas -> Elements for Logic & Flow

-ing clauses

Example 2:

A current is sent through the material. *As a result*, the electrons are polarized.

-> A current is sent through the material, *thus polarizing* the electrons.

Connecting Ideas -> Elements for Logic & Flow

-ing clauses

-ing clauses:

Prices rise, thus ***leading*** to a decrease in demand.

* emphasize cause and effect (Result statements)
* used in combination with 'thus' (optional)
* render your statements more dynamic
* very common in academic writing

Causal Relationship
(Result Statement)

-ing clauses

Example:

However, this procedure generates fusion proteins expressed inside inclusion bodies and dramatically reduces their yield.

However, this procedure generates fusion proteins expressed inside inclusion bodies, (thus) resulting in dramatically reduced product yields.

Connecting Ideas -> Elements for Logic & Flow

-ing clauses

* problem of ambiguity when used >2 times in one sentence

-> Use with caution (~ once per sentence)

Problem: -ing overuse in one sentence

The magnitude of the earthquake is increasing quickly, thus destroying buildings and other infrastructure, resulting in major increase in casualties, leading to considerable costs for both society and individuals, suggesting that urgent measures are essential to prevent such incidents.

The magnitude of the earthquake is increasing quickly, thus destroying buildings and other infrastructure.
As a result, the number of casualties increases considerably, leading to considerable costs for both society and individuals.
Together, our analysis suggests that urgent measures are essential to prevent such incidents in highly populated areas.

-ing Task 1

Read through the following statement, and discuss with your peers if all –ing forms are necessary.

Therefore, we were wondering whether weakening the mechanical strength of drug-resistant cells by interfering with the matrix ligands, thereby inhibiting cell growth, is possible.

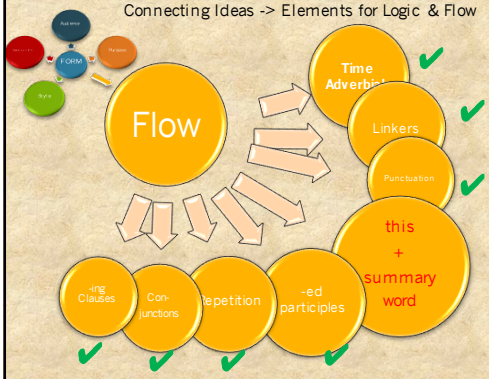
Re-write for improve clarity, and reduce the number of –ing verbs whenever feasible. Consider changing punctuation if it improves the clarity of the statement.

Time: 15 min

Task
-ing overuse

https://www.wenjuan.in/s/aaUfMf/

Connecting Ideas -> Elements for Logic & Flow



Connecting Ideas -> Elements for Logic & Flow

this + summary word

THIS/THESE + Summary word

* phrase that summarizes what has already been mentioned in the preceding sentence

Example 1:

ESL lecturers know that students need to understand the differences between formal and informal language. However, ***this understanding*** cannot be acquired in the short-term, but requires years of continuing reading and writing.

Connecting Ideas -> Elements for Logic & Flow

this + summary word

Example 2:

The number of applications has increased steadily, while the number of places has remained constant. ***This situation*** has resulted in intense competition for admission.

Connecting Ideas -> Elements for Logic & Flow

this + summary word

THIS/THESE + Summary word

* ***THIS*** sometimes used 'unsupported' by noun

BEWARE: only do so if it is absolutely clear what THIS refers to!

-> ideally to always support *THIS* with suitable summary noun

Connecting Ideas -> Elements for Logic & Flow

Flow

Bad Example

Mechanical reasoning has been developed by philosophers and mathematicians since antiquity; the study of logic directly resulted in the invention of the digital computer, based on the work of mathematician Alan Turing and others, with Turing's theory of computation suggesting that a machine, by shuffling symbols as simple as "0" and "1", could simulate any possible act of mathematical deduction; this, along with concurrent discoveries in other areas, inspired a small group of researchers to consider the possibility of building an electronic brain.

Adapted from Wikipedia

-> difficult to read, understand, process

Improved Flow

Mechanical reasoning has been developed by philosophers and mathematicians since antiquity. **Furthermore,** the study of logic directly resulted in the invention of the digital computer. **This invention** was based on the work of mathematician Alan Turing and other researchers. Turing's theory of computation suggested that a machine, by shuffling symbols as simple as "0" and "1", could simulate any possible act of mathematical deduction. **This revolutionary idea,** along with concurrent discoveries in other areas **such as neurology and cybernetics**, inspired a small group of researchers to consider the possibility of building an electronic brain.

Adapted from Wikipedia

Final comment about copy+pasting

Loss of Logical Flow