

《學術英語Power Up》 Units 3-6

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課程名稱：EMI Preparation Program

教學主題：Mastering the Art of Visual
Description in Academic English





SURVEYS

Pie Charts & Bar Charts

Surveys – Pie Charts

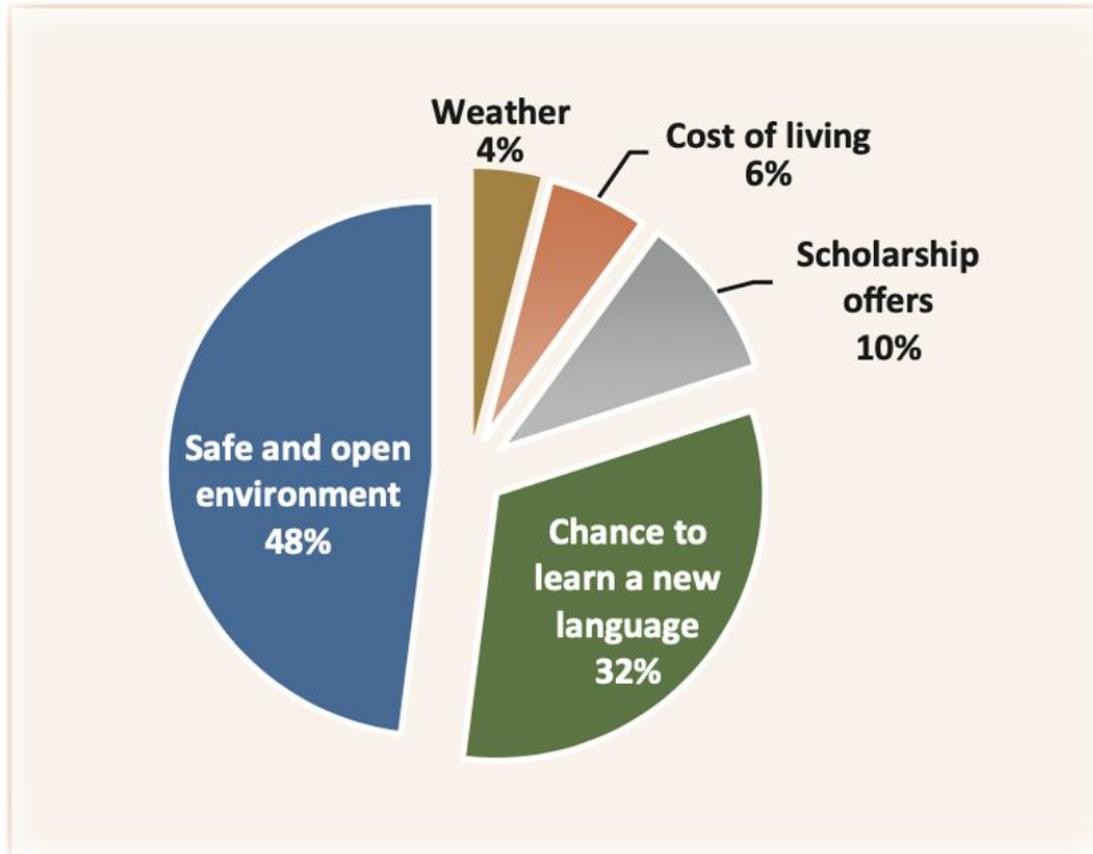


Figure 1. Factors students consider most important when choosing a destination overseas.

Note: The results are based on survey responses from 1,600 U.S. students.

Surveys – Bar Charts

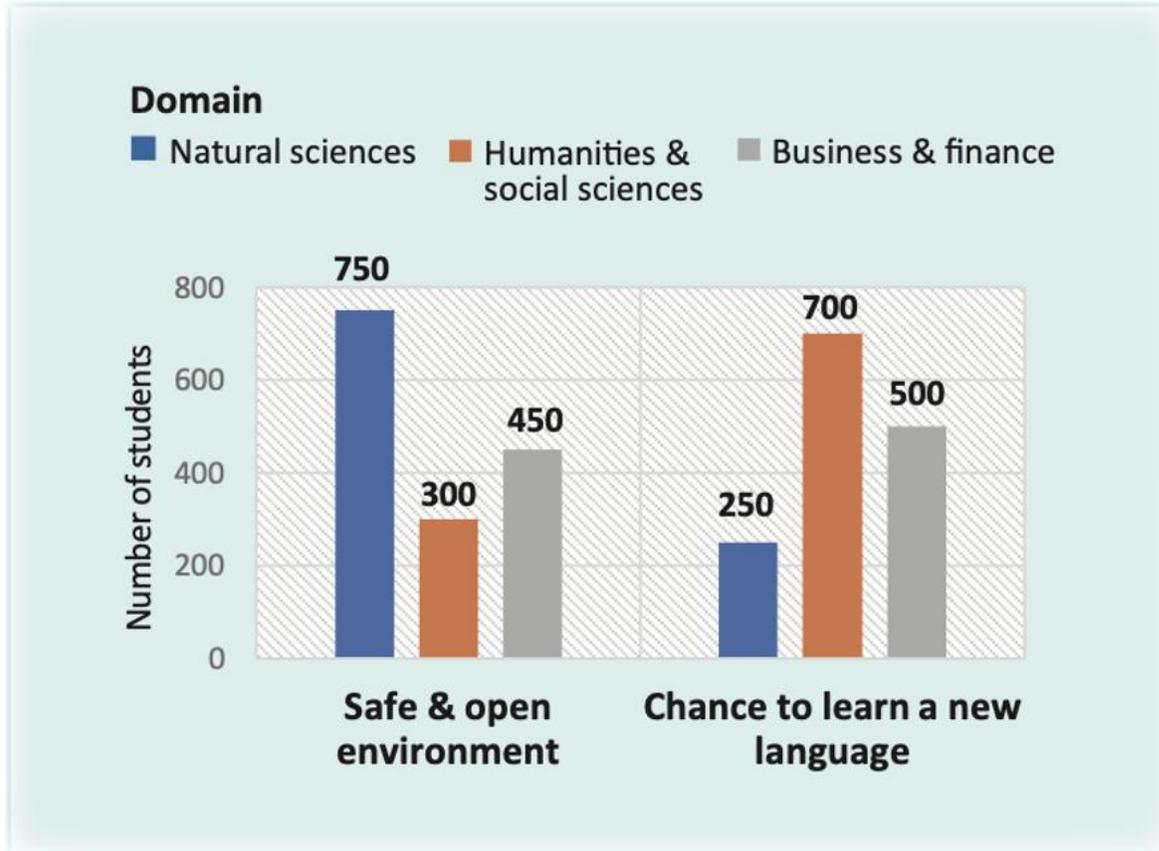


Figure 2. Number of students choosing the top two factors by domain.

Note: The results are based on survey responses from 1,600 U.S. students.

Challenge 1a

In class, your professor presents the two figures below during her talk on U.S. students studying in Asia.

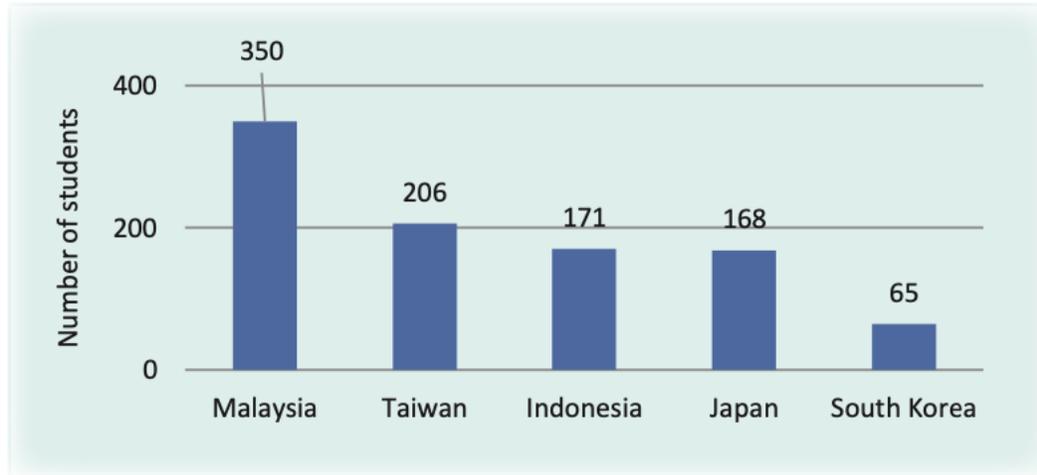


Figure 1 What is the best Asian destination for U.S. students?

Note: The results are based on survey responses from 960 students in the U.S.

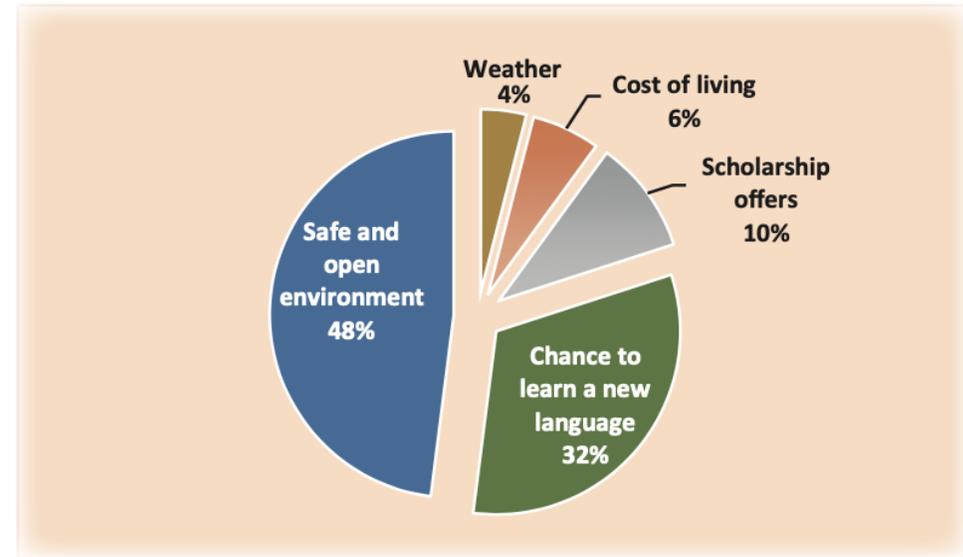


Figure 2 Factors students consider most important when choosing a destination overseas

Note: The results are based on survey responses from 1,600 U.S. students.

Challenge 1b

The student union of a university conducted a survey of students' and teachers' opinions about online learning, and they released the two figures below on their website.

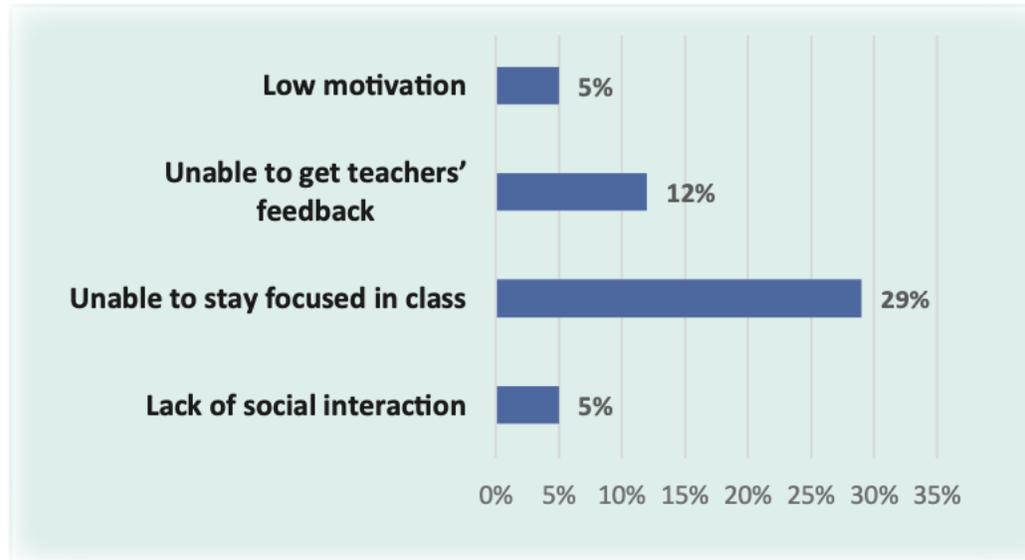


Figure 1 Students' main concerns with online learning (N=800)

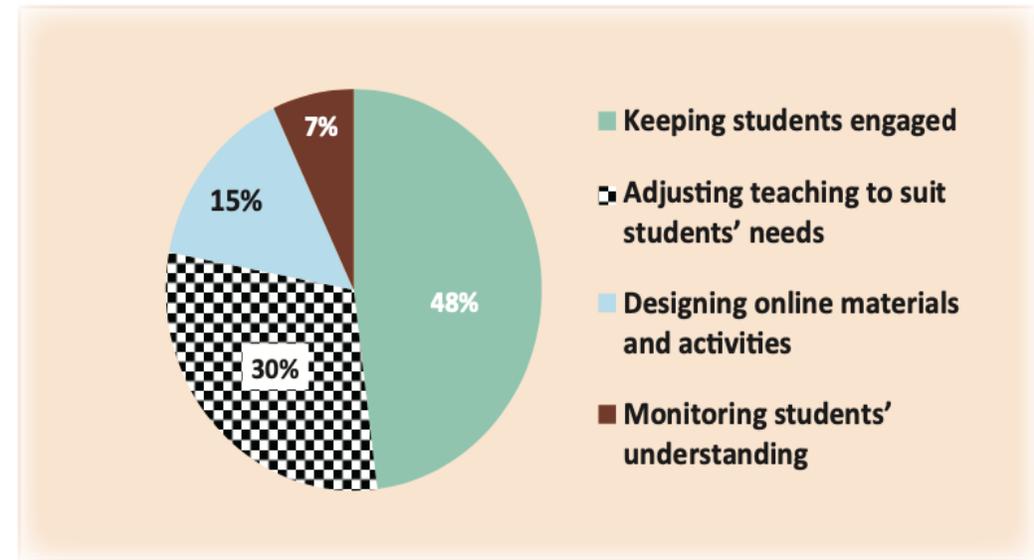


Figure 2 Main challenges for teachers of online classes (N=121)



CHANGES & TRENDS

Line Charts

Changes & Trends – Line Charts

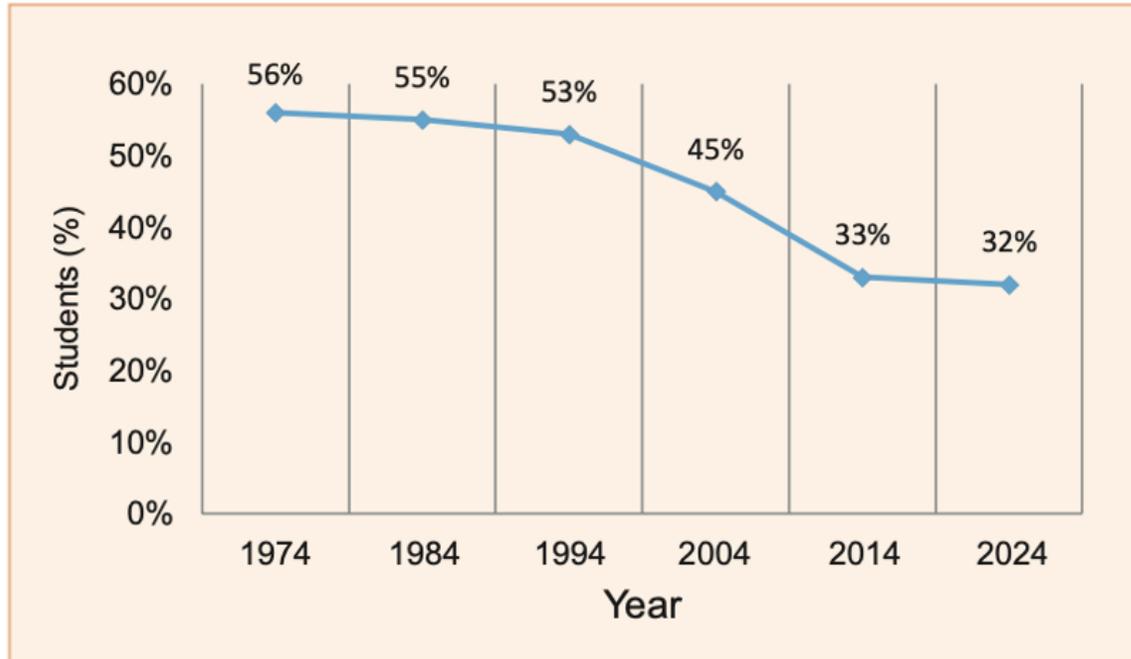


Figure 1. Percentage of Hampton College students with summer jobs (1974–2024)

Changes & Trends – Line Charts

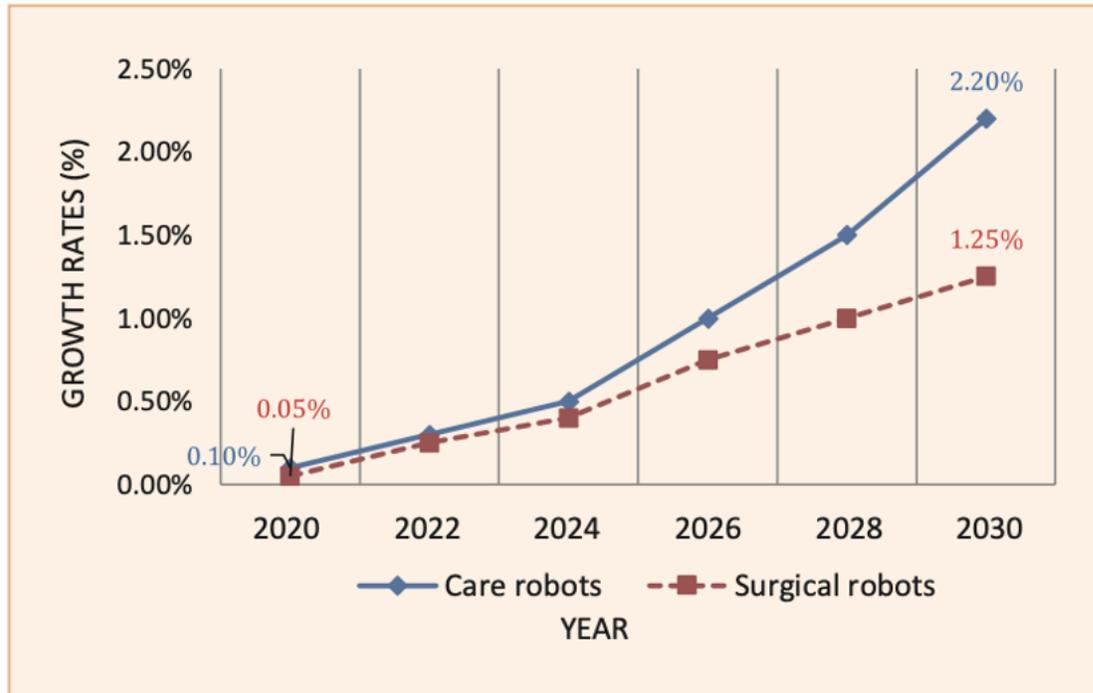


Figure 2. Devon City Hospital: Projected market growth in health related AI technology

Challenge 2a: Changes

Which one is a speech script, and which one is an essay? Why do you think so?

(a)

The graph shows that fewer students have summer jobs now than 50 years ago. You can see a steady decline over the years, starting at 56% in 1974 and decreasing to 32% in 2024. The sharpest drop was between 1994 and 2014. However, there was only a slight decline between 2014 and 2024.

Challenge 2a: Changes

Which one is a speech script, and which one is an essay? Why do you think so?

(b)

This graph shows how the percentage of Hampton students working in summer jobs declined over the past five decades, from 56% in 1974 to 32% in 2024. This trend indicates a significant reduction in the number of students taking up summer jobs during this period. Nevertheless, it is noticeable that the percentage remained relatively stable between 2014 and 2024.

Challenge 2b: Trends

Which one is a speech script, and which one is an essay? Why do you think so?

(a)

Looking at this graph, we can see how much health-related AI technology at Devon City Hospital is expected to grow from 2020 to 2030. Rapid growth is expected in the sales of care robots from a rate of 0.1% in 2020 to 2.2% in 2030. Surgical robots are also on the rise, though at a slower rate. This suggests a big increase in AI tech being used in healthcare over the next ten years.

Challenge 2b: Trends

Which one is a speech script, and which one is an essay? Why do you think so?

(b)

The graph illustrates the projected market growth of health-related AI technology at Devon City Hospital from 2020 to 2030. Care robots are expected to see a substantial increase from 0.1% in 2020 to 2.2% in 2030. Similarly, care robots are projected to grow from 0.05% in 2020 to 1.25% in 2030, indicating a significant rise in the adoption of AI technology in healthcare over the decade.



PROCESSES

Flow Charts and Classification Charts (Tree Maps)

Processes – flow charts

Each animal takes in more pesticides than it can remove, becoming less and less healthy.

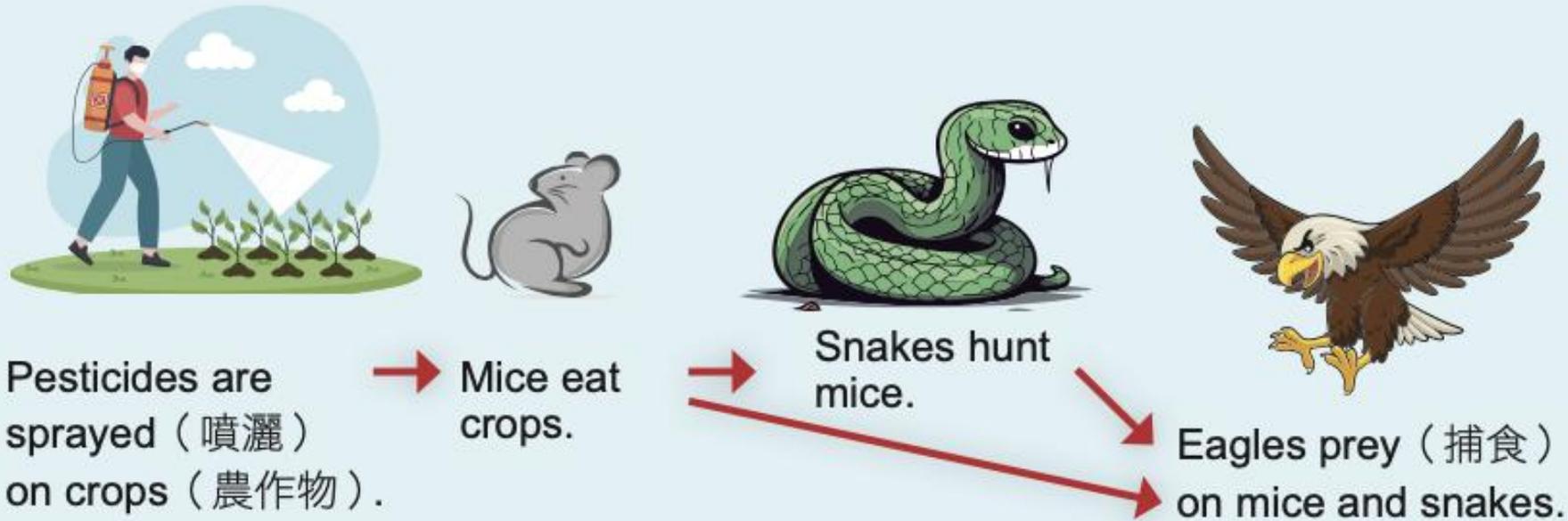


Figure 1 How pesticides spread

Processes – classification charts

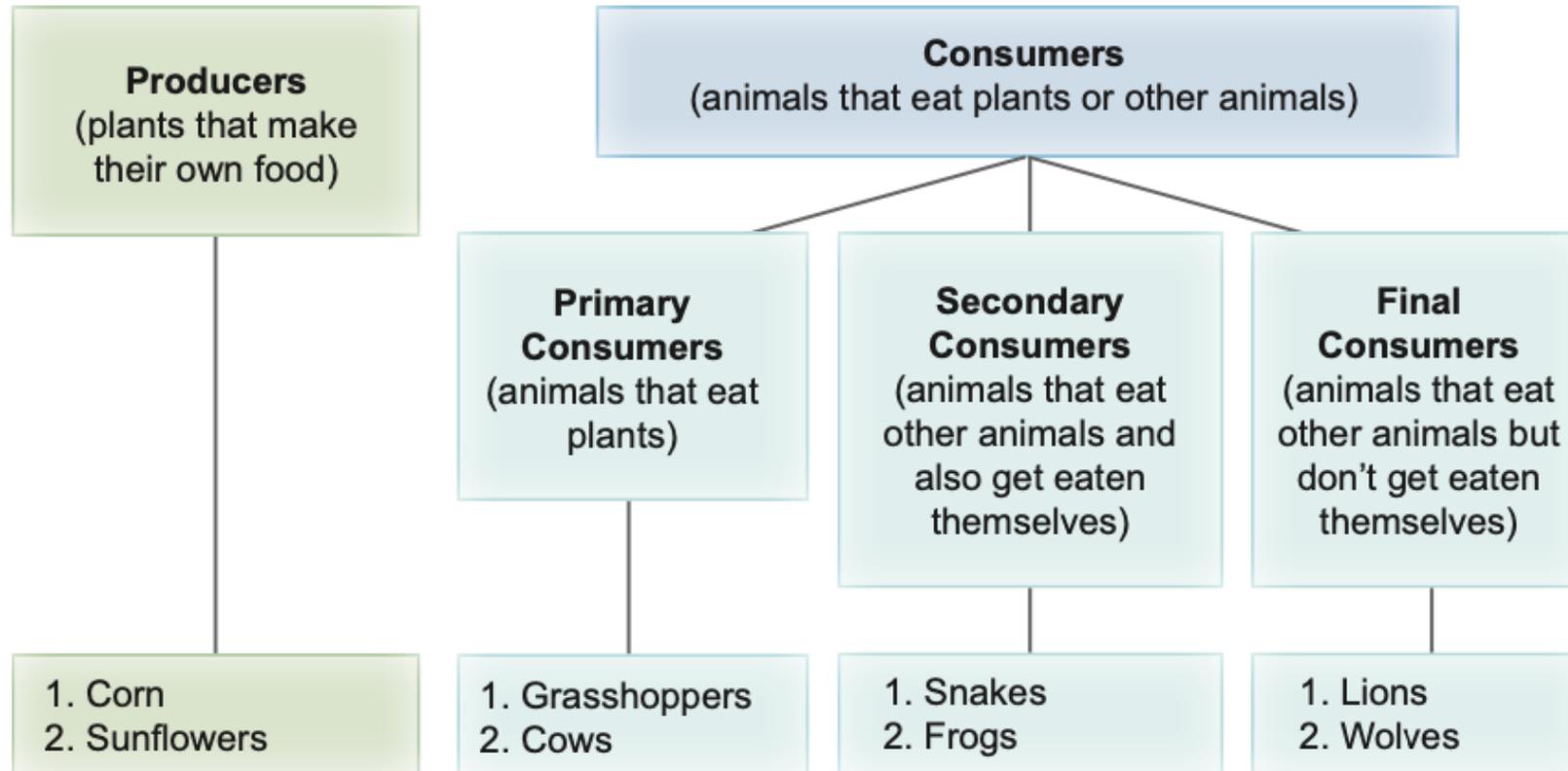


Figure 2 Animals and plants grouped by how they get food

Sources: <https://education.nationalgeographic.org/resource/food-chain/>

Challenge 3a

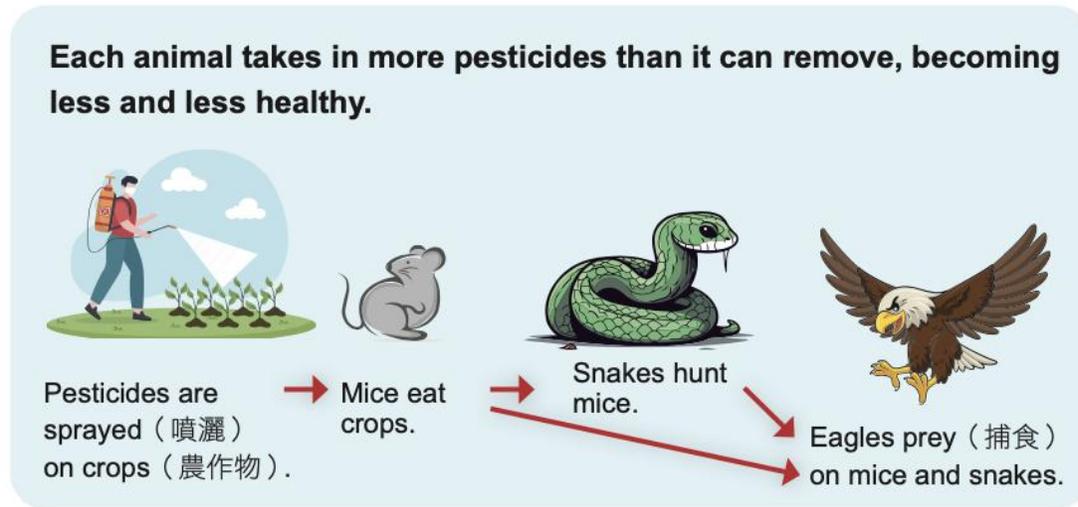


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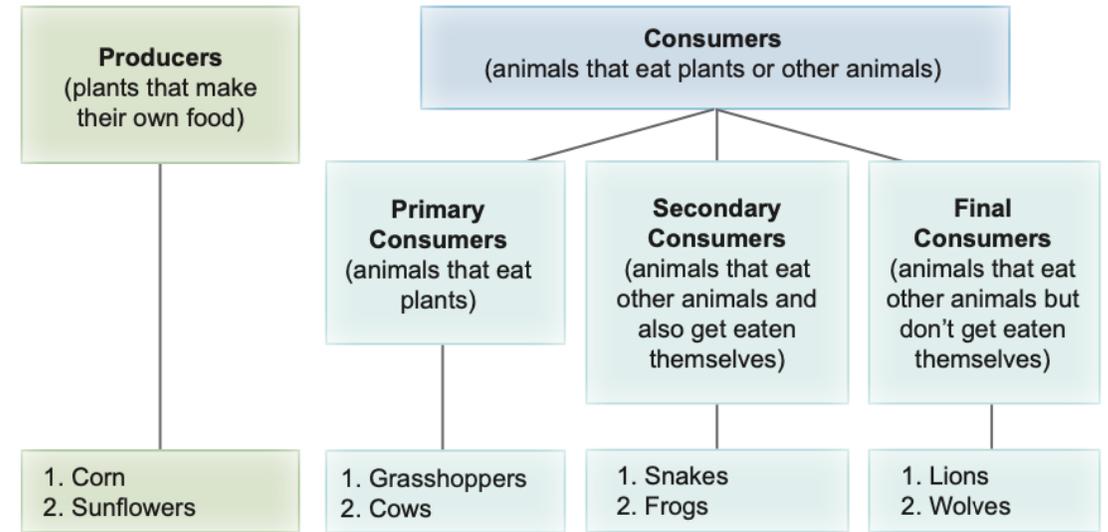
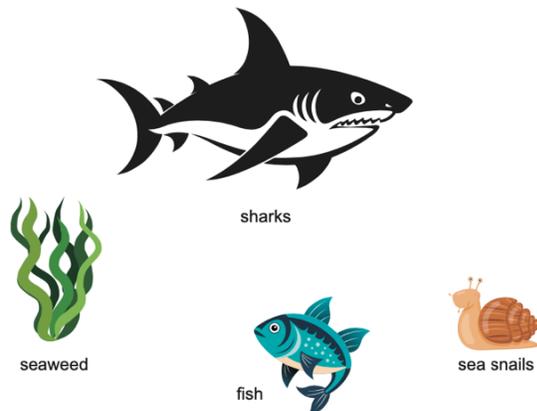


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SUMMARIZE & PARAPHRASE

Summarize & Paraphrase

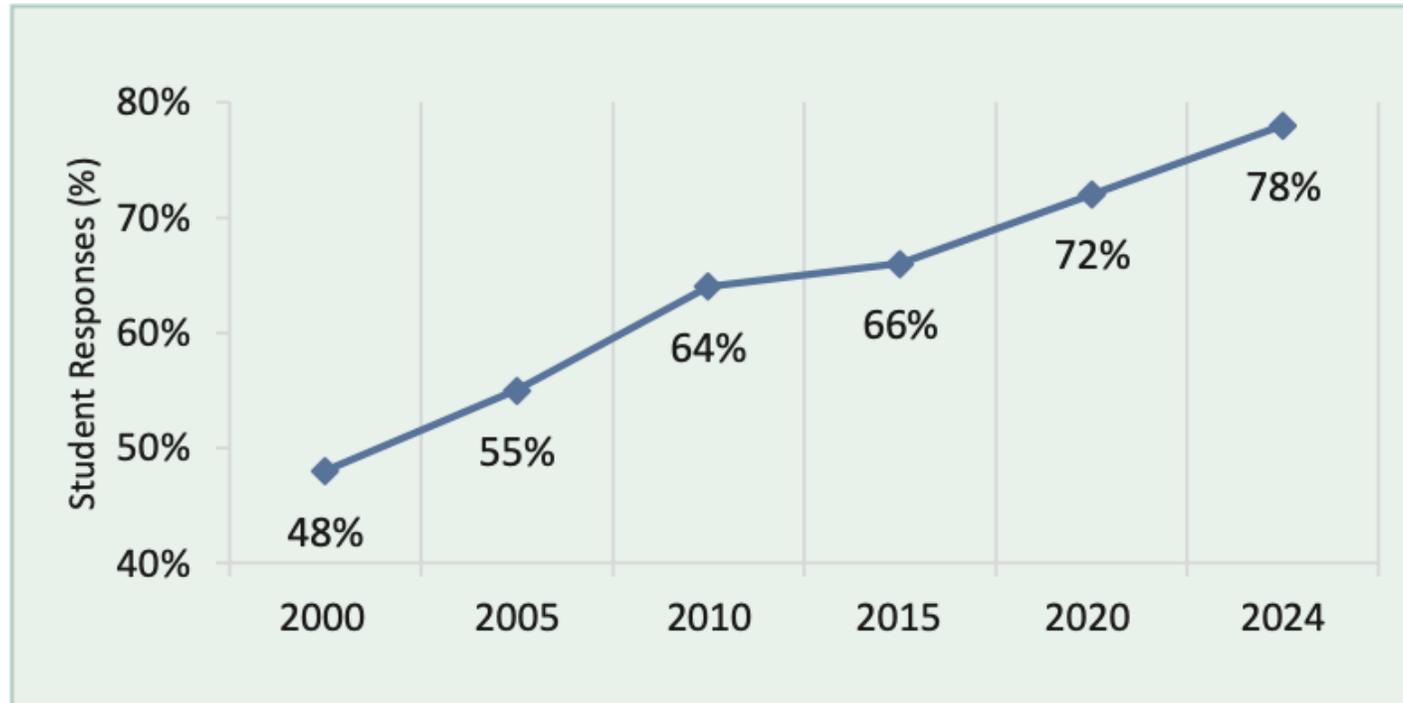


Figure 1 Percentage of students who believe there is more crime now than in previous years (based on a survey of 750 students)

Summarize & Paraphrase



Mike, 3rd Year Sociology

This graph shows that most people have the perception that the rate of crime in society is rising year after year. However, we cannot assume that this reflects the true state of affairs. The reasons for this are explained as follows.

Imagine that you see two headlines on a news website. The first is 'Man Steals Wallet in Station.' The second is 'Man Enjoys Great Day.' Like most people, you would probably click on the bad news story.

When asked how they feel about news, most people will claim that the news media are too negative. People say they would prefer to hear and read positive news stories. However, the media know that, in fact, negative news sells. As a consequence, crime forms such a large part of the daily news content.

You might think this is harmless. After all, crime is one of the leading genres of fiction. Watching crime stories in the movies or on TV allows people to feel scared in a safe way, according to psychologists. However, the amount of crime featured in the news is out of proportion with the real situation. That explains the phenomenon shown in the graph.

In addition, humans are obsessed with crime. This means we think about small incidents a lot and give them more attention than they probably deserve. This is another reason why, when asked about the level of crime in society, we are likely to overestimate it and guess that it is rising when, in fact, it is actually falling.

Summarize & Paraphrase



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Imagine that you see two headlines on a news website. The first is 'Man Steals Wallet in Station.' The second is 'Man Enjoys Great Day.' Like most people, you would probably click on the bad news story.

The rising rate, as indicated in the graph, does not show the real situation. People are generally drawn to negative news, like crime stories. Therefore, the media focus on such stories. News about crime interests people because it provides them with a safe thrill. As a consequence of the media's focus and people's interest, many people believe crime is increasing, even when it might actually be decreasing.

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Summarize & Paraphrase

The rising rate, as indicated in the graph, does not show the real situation. People are generally drawn to negative news, like crime stories. Therefore, the media focus on such stories. News about crime interests people because it provides them with a safe thrill. As a consequence of the media's focus and people's interest, many people believe crime is increasing, even when it might actually be decreasing.

S1: Describe the graph
S2: Summarize Mike's essay (Red)
S3: Introduce two supporting points (transition)
S4-6: First support & Second support (Blue + Green)
S7: Conclusion (Yellow)

¹The graph indicates that most students believe the crime rate is increasing each year. ²The rising crime rate, according to Mike, does not show the real situation. ³His comments provide two reasons to support his position. ⁴In the first place, people are generally drawn to negative news, like crime stories. ⁵Therefore, the media focus on such stories. ⁶Furthermore, news about crime interests people because it provides them with a safe thrill. ⁷As a consequence of the media's focus and people's interest, many people believe crime is increasing, even when it might actually be decreasing.

Challenge 4a

A newspaper in West House City published the following bar chart to show the number of crimes reported from 2000 to 2023.



Figure 1 Crimes reported in West House City

Challenge 4a

Read the following opinion piece that appeared in the local newspaper after the release of the figure above.

Opinion

February 24, 2024

By Susan Lee

Much Crime is Hidden

Official figures show that the crime rate is falling. Unfortunately, this “good news” is not accurate. I will explain why.

These figures only represent the number of crimes recorded by the police. But, in fact, as much as 60% of crime is never even reported. There are a number of explanations for this.

First, some victims of crime feel that contacting the police is pointless. They feel that their problem will not be taken seriously. They worry that

the incident appears trivial to other people despite the psychological or even physical suffering they are experiencing.

Crimes also leave the victims feeling stressed. Unfortunately, these innocent people may not then feel they can cope with even more stress. They, therefore, choose not to go through the official process of reporting what happened to them. This may be especially true if the victims feel their own behavior played some part in what occurred.

Yet other victims feel what took place may be too trivial to bother the police force with. They may see police officers working very hard. Consequently, they may be reluctant to add to the burden by reporting their own problems.

For all of these reasons, much of the crime in society today is actually hidden. We must take action to deal with this because criminals are getting away with their crimes. Furthermore, the seriousness of the problem is obscured. This means that the resources necessary for tackling these issues are not being directed to the appropriate places.

Challenge 4b

Letter extract (written by the head of the History Department)

For the upcoming semester, we need to hire more teaching staff to replace members of the faculty who are moving on to other positions elsewhere. In order to meet the needs of our students, I strongly recommend that we focus our recruitment efforts on those who specialize in local history, specifically that of the eighteenth and nineteenth centuries.

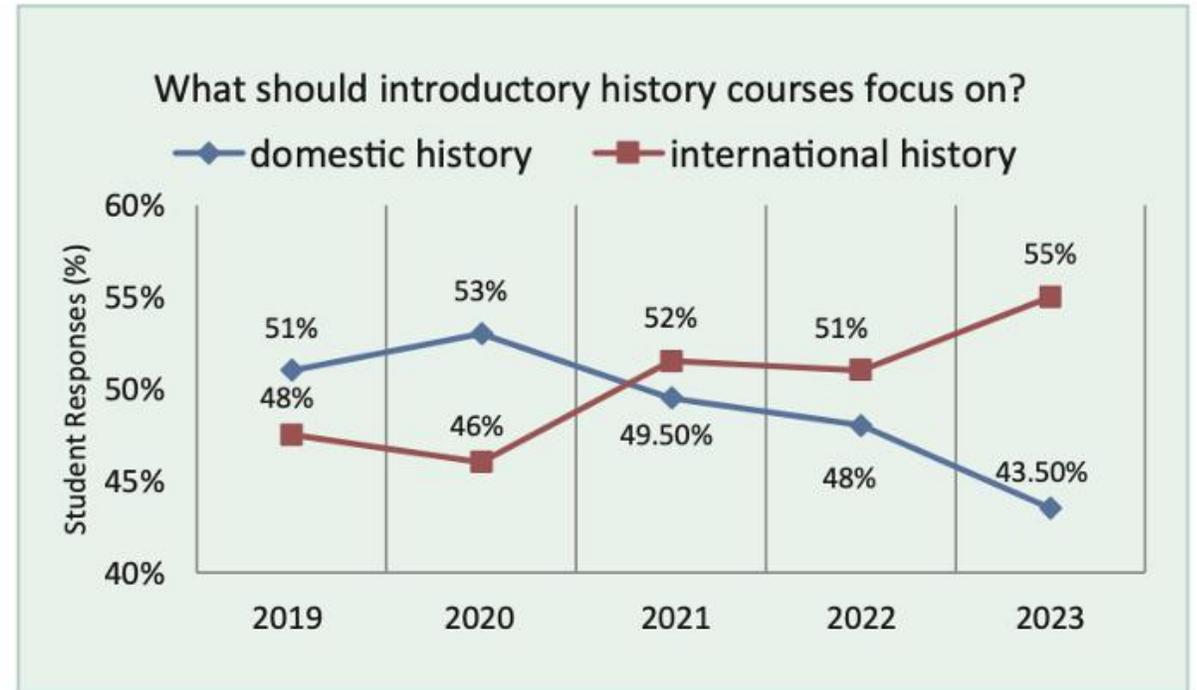


Figure 2 Survey results of history students at Jintan College



Class Dismissed!

