

Switching on the light bulb: helping students develop thinking skills



<http://www.macmillanskillful.com>
#lindsay_warwick



Assessing knowledge



when why how long whose
which how often where who
what how many



Discussion



Perhaps / probably / possibly

It could/might...

I guess...

It's likely/unlikely...

I doubt it's... because...

I think...

I'm pretty sure...

I'm not sure but...

I wonder...



I wonder...



What's going on in this picture?

New York Times



WHAT'S GOING ON IN THIS PICTURE?

THE LEARNING NETWORK

What's Going On in This Picture?

Intriguing Times images stripped of their captions -- and an invitation to students to discuss them live.

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Look closely at this image, stripped of its caption, and join the



Questioning



Bloom's Taxonomy	Questions
Knowledge	What? When? Where? Who? What happened? What happened next?
Understand	What's the main idea? Can you put it into your own words?
Apply	In what other situations can you use this? What would you change?
Analyse	How is it similar/different? What conclusion can be made?
Evaluate	Is there a better solution? Is the argument logical?
Create	How can we solve the problem? How can we invent...?

Higher Order Thinking Skills



What would happen if...?

In what other situations...?

Is it right or wrong to...?

How is it similar to...?

What other solutions...?

To what extent do you think...?

How useful is...?

What change would...?

What could you...?

Predict, compare, assess, analyse, interpret,
solve, contrast, illustrate, give examples of...

Higher Order Thinking Skills



What would happen if...?
In what other situations...?
Is it right or wrong to...?
How is it similar to...?
What other solutions...?
To what extent do you think...?
How useful is...?
What change would...?
What could you...?



Predict, compare, assess, analyse, interpret,
solve, contrast, illustrate, give examples of...

Scaffolding/Challenging



How has our relationship with the environment changed?

Think of at least five examples.

Scaffolding/Challenging



What do you consider the main causes of disease?

Skillful Listening & Speaking 3, Boyle & Kisslinger, Macmillan 2013

Scaffolding/Challenging



What do you consider the main causes of disease?

Consider economics, lifestyle, emotional well-being, as well as medical reasons. Think of at least two examples for each.

Skillful Listening & Speaking 3, Boyle & Kisslinger, Macmillan 2013

A question



What are the pros and cons of a formal national identification system?

What are the pros and cons of a formal identification system? Relevant or irrelevant?



- A. Issuing formal ID to everyone is expensive.
- B. Only guilty people fear a formal ID system.
- C. It is important for public safety.
- D. People often lose their ID.
- E. People in power may abuse the ID system.
- F. Being forced to carry ID is against civil liberties.
- G. Immigration can be monitored.
- H. Crime can be reduced.
- I. Identities can be stolen.
- J. People often change their hairstyles.
- K. Easier access to facilities.

Sorting/Ranking arguments



- Issuing formal ID to everyone is expensive.
- It is important for public safety.
- People in power may abuse the ID system.
- Being forced to carry ID is against civil liberties.
- Immigration can be monitored.
- Crime can be reduced.
- Identities can be stolen.
- Easier access to facilities such as airports, courts etc.

debatabase.org



The screenshot shows a web browser window with the URL `idebate.org/debatabase/debates/law/house-would-introduce-compulsory-identity-cards`. The website header features the 'idea BETA international debate education association' logo, a search bar, and navigation links: HOME, DEBATABASE, DEBATE NOW, COMMUNITY, NEWS, EVENTS, TRAINING, MEDIA, and MY DEBATE. The main content area is titled 'DEBATES' and features a debate titled 'THIS HOUSE WOULD INTRODUCE COMPULSORY IDENTITY CARDS'. The debate text discusses the use of fingerprint and iris checks for security and the potential loss of personal liberty. Below the text are two columns: 'POINTS FOR' and 'POINTS AGAINST'. The 'POINTS FOR' column lists 'Identity cards improve public safety' and 'Identity cards confer advantages on their users'. To the right of the debate text is a 'discuss this' button. Further right is a 'CURATE THIS DEBATE' section with a star icon and a 'Find out more' link. Below that is a 'BE A DEBATABASE EDITOR' section with a star icon and text explaining the role of editors. The browser's taskbar at the bottom shows various application icons and the system clock indicating 19:19 on 03/10/2013.

linzsw@btinternet.com - [x] pros cons identification sy [x] This House would introdu [x]

idebate.org/debatabase/debates/law/house-would-introduce-compulsory-identity-cards

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idea BETA international debate education association

Search by keyword go

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DEBATES

THIS HOUSE WOULD INTRODUCE COMPULSORY IDENTITY CARDS

In an age of technology, more and more information can be gathered from an individual for security measures, for example for fingerprint[1] or iris[2] checks at airport security. While the intention of this may be to increase security across nations[3], some people have begun to question how much of their personal information is really needed by government organisations, and whether their liberty is at risk[4]. While the standards of identity cards may vary from country to country, nations such as the UK[5], Canada[6], the

[Read more](#)

[discuss this](#)

POINTS FOR

Identity cards improve public safety >

Identity cards confer advantages on their users >

POINTS AGAINST

CURATE THIS DEBATE

If you are an academic or highly knowledgeable about a particular debate could you give an hour or two a month to curate a debate?

[Find out more](#)

BE A DEBATABASE EDITOR

Idebate needs editors from around the world to check, moderate and create content for debatabase and the site more generally. Editors are vital in making the site run smoothly and ensuring that

19:19 03/10/2013

What's the question?



- We'd have to use simpler forms of machinery.
- Food wouldn't last long.

What's the question?



- We'd have to use simpler forms of machinery.
- Food wouldn't last long.

What would a world without energy be like?

What's the question?



- We'd have to use simpler forms of machinery.
- Food wouldn't last long.
- There'd be a collapse of infrastructure.
- There'd be rioting in the streets.
- There'd be a much greater emphasis on manual labour.

‘Five caps’



Discussion point

Discuss these questions with a partner.

- 1 Which social networking sites do you use? How long do you spend on them each week?
- 2 How has social networking changed the lives of young people today, compared to the previous generation of young people? Is it a change for the better?
- 3 Why do you need friends? Are online friends true friends?

Skillful Reading & Writing 4, Boyle & Warwick, Macmillan 2014

Problem solving: reverse brainstorming



Developing critical thinking

Discuss these questions in a group.

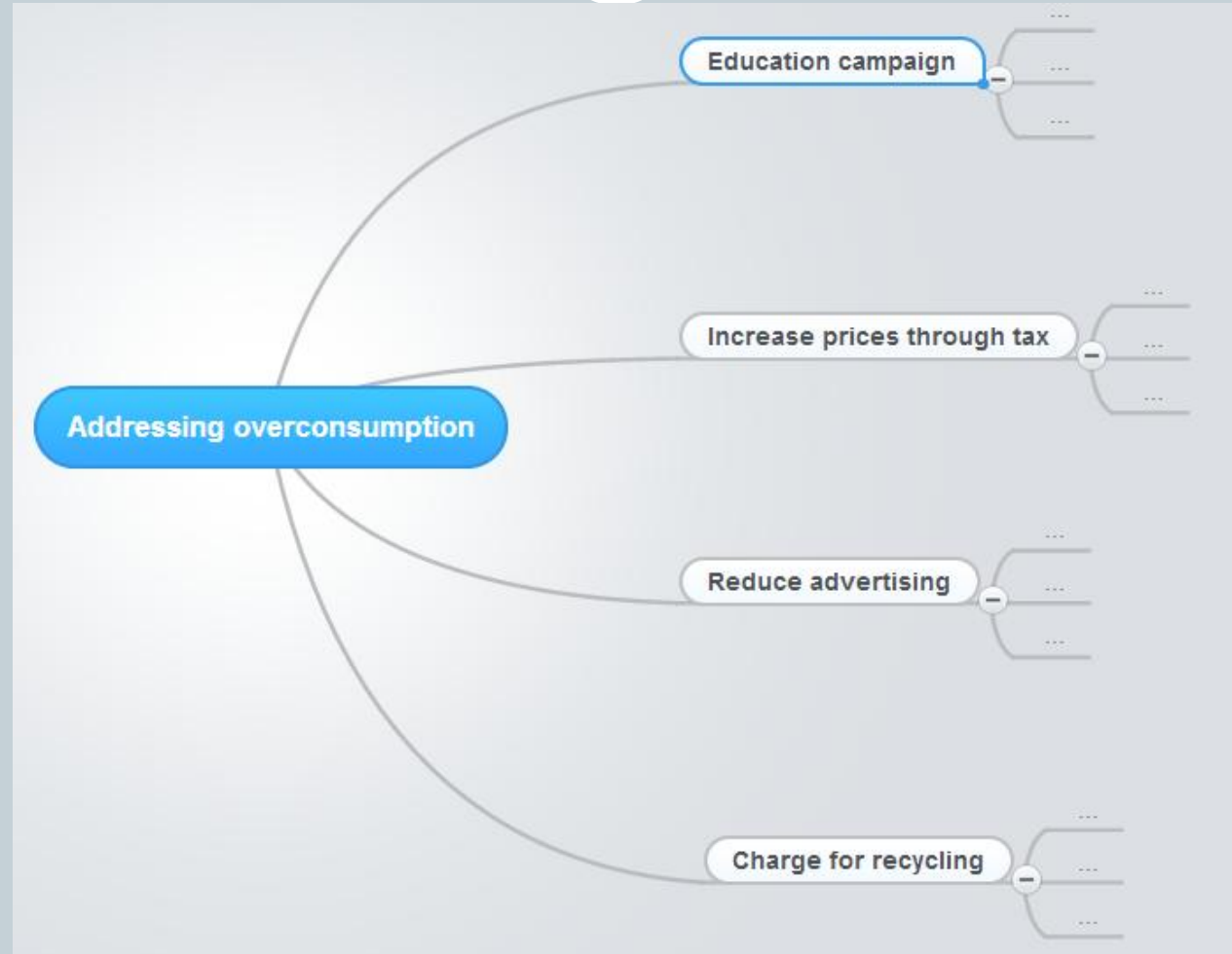
- 1 How do you think education helps to reduce the size of families?
- 2 How do you think the problem of overconsumption can be addressed?

Reversing the question



- What should we do to ensure the Earth's survival in future?
- What should managers do to incentivize staff?
- What are some products that are better produced far from you?
- What effects do you think the globalization of education may have on the world in the future?
- What can we do to reduce the annoying sounds that people make?


Decision tree



Thinking time



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 **Public Idea Space**

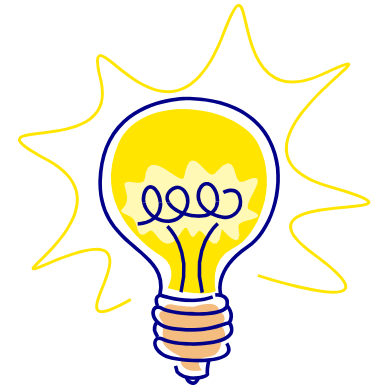
“really useful”
killerstartups.com

“impresses via its simplicity”
dailywebapps.com

“cool service”
makeuseof.com

“genial servicio”
enlazando.com

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