



The Jabberwock



Artist: Michael Kutsche From: The Jabberwocky by Lewis Carroll (1871)





The Jabberwock



Where does it live?

What does it eat?





How does it move? How does it sound?







'Twas brillig, and the slithy toves

Did gyre and gimble in the wabe:

All mimsy were the borogoves,

And the mome raths outgrabe.

- 1. What were the slithy toves doing in the wabe?
- 2. How would you describe the state of the borogroves?
- 3. What can you say about the mome raths?



'Twas brillig, and the slithy toves

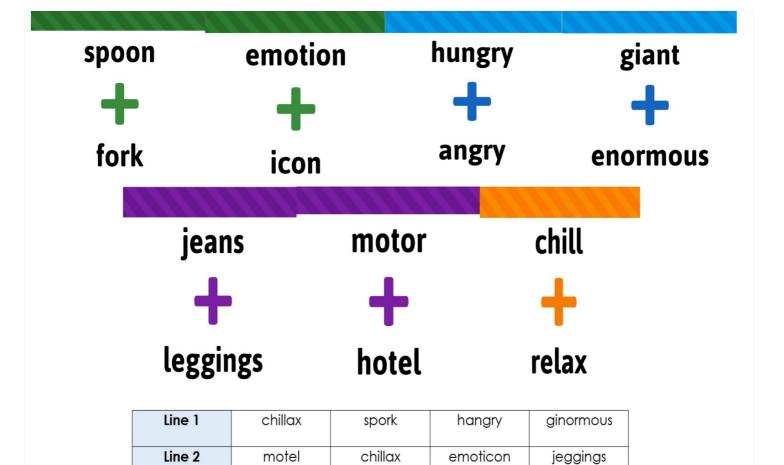
Did gyre and gimble in the wabe:

All mimsy were the borogoves,

And the mome raths outgrabe.

terrified

- 4. Were the borogroves right to feel mimsy? If so, why? If not, why not?
- 5. How effective was the mome raths' strategy?



emoticon

spork

jeggings

emoticon

motel

jeggings

ginormous

hangry

Line 3

Line 4





'Twas brillig, and the slithy toves

Did gyre and gimble in the wabe:

All mimsy were the borogoves,

And the mome raths outgrabe.

What happens next?

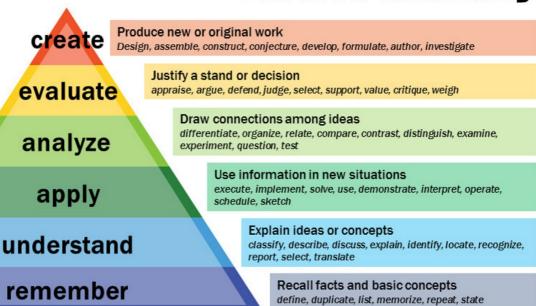


6. Work with your group. Complete your verse only with new words (either from the previous exercise or from your imagination).

Group 1	"Beware the Jabberwock, my son! The jaws that, the claws that catch! Beware the bird, and shun The Bandersnatch!"		
Group 2	He took his sword in hand; Long time the foe he sought— So rested he by the tree And stood awhile in thought.		
Group 3	And, as in uffish thought he stood, The Jabberwock, with eyes of flame, Came through the wood, And burbled as it came!		
Group 4	One, two! One, two! And through and through The vorpal blade went snicker-snack! He left it dead, and with its head He went back.		
Group 5	"And have you killed the Jabberwock? Come to my arms, my boy! O frabjous day! Callooh! Callay!" He chortled in his joy.		



2001 **Bloom's Taxonomy**



Taken from: Bloom's Taxonomy | Center for Teaching | Vanderbilt University



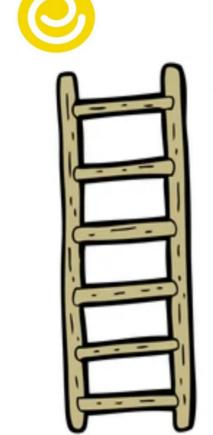
Mastery and developmental tasks

A **mix** of developmental and mastery tasks ensures that all students achieve some success while the more able are stretched. We need both types of task in all lessons and all academic levels.



Developmental tasks

Mastery tasks



Developmental tasks

not all students will be able to achieve the task fully they are more difficult they are often dependent on prior learning involve higher-order thinking skills

Mastery tasks

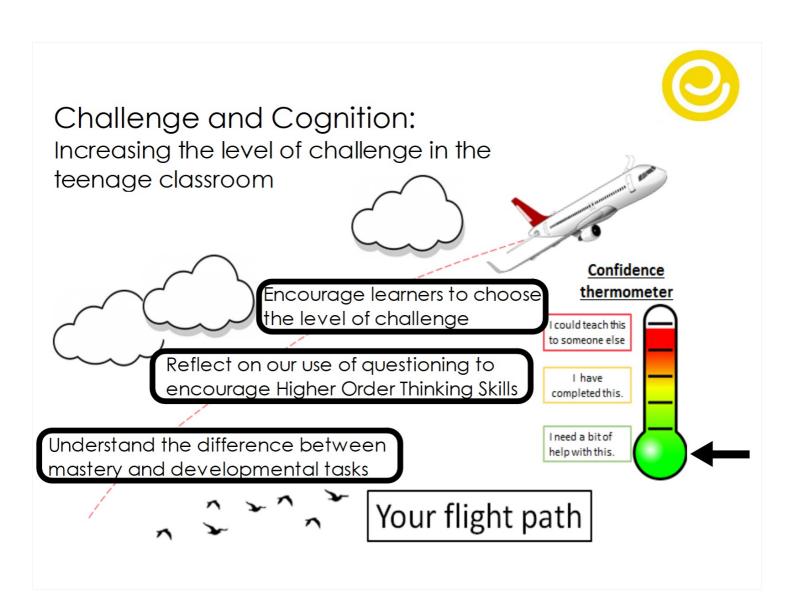
they are fairly easy, involving knowledge and comprehension are usually part of our scaffolding

involve lower-order thinking skills
all students should be able to find the answers
they can be achieved in a short time
they are not dependent on prior learning

W	/hat Claire (as a student) did	Mastery or developmental task?	What level on Bloom's Taxonomy?	Which verb(s)?
1.	Describe what they see in the photo	Mastery	Understand (LOTs)	Describe
2.	Chilli challenge: choose a question to answer about the Jabberwock	Mastery	Understand (LOTs) Apply (LOTs)	Describe (where does it live? – visible from picture) Describe (what does it eat? Interpret (how does it move?) Demonstrate (how does it sound?)
3.	Answer 3 initial questions about verse 1	Mastery	Apply (LOTs)	Interpret
4.	Replace 4 words from the first verse with English words.	Mastery	Apply (LOTs)	Interpret
5.	Answer 2 more questions about the first verse	Developmental	Evaluate (HOTs)	Appraise
6.	Play bingo with portmanteau words.	Mastery	Understand (LOTs)	Identify
7.	Guess what happens next in the poem.	Developmental	Create (HOTs)	Conjecture
8.	Complete the verse with their own words in groups to finish the poem.	Developmental	Create (HOTs)	Design/develop
9.	Work with a new group and share their verse. Their new partners try to guess what the added words mean.	Developmental	Evaluate (HOTs)	Appraise



- 1. Was there a point in the lesson where the students chose the level of challenge for themselves?
- 2. Was there a point in the lesson where the teacher chose the level of challenge for the students?





Procedural



Remembering



Thinking

a. How many minutes do you have for this?

b. What's your take on the ending of The Jabberwocky?

c. When did Amelia Earhart start flying?

d. Why is it important to be kind?

e. What's the past tense of bring?

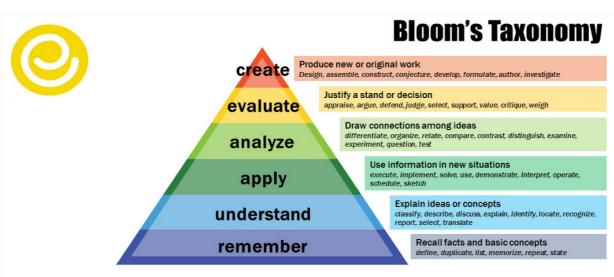
f. Are you working alone or with a partner?

g. Who is this song written for, do you think?

h. Did you bring your pencil case?

i. How many Olympian Gods are there?





Procedural

a. How many minutes do you have for this?

f. Are you working alone or with a partner?

h. Did you bring your pencil case?

Remember/ understand

Remembering c. When did Amelia Earhart start flying?

e. What's the past tense of bring?

i. How many Olympian Gods are there?

Remember/ understand

Thinking

b. What's your take on the ending of The Jabberwocky?

d. Why is it important to be kind? g. Who is this song written for, do you think?

Analyse/
evaluate



In classroom observations, we analysed the types of questions that teachers (and students) mostly asked.

60% encouraged students to remember.

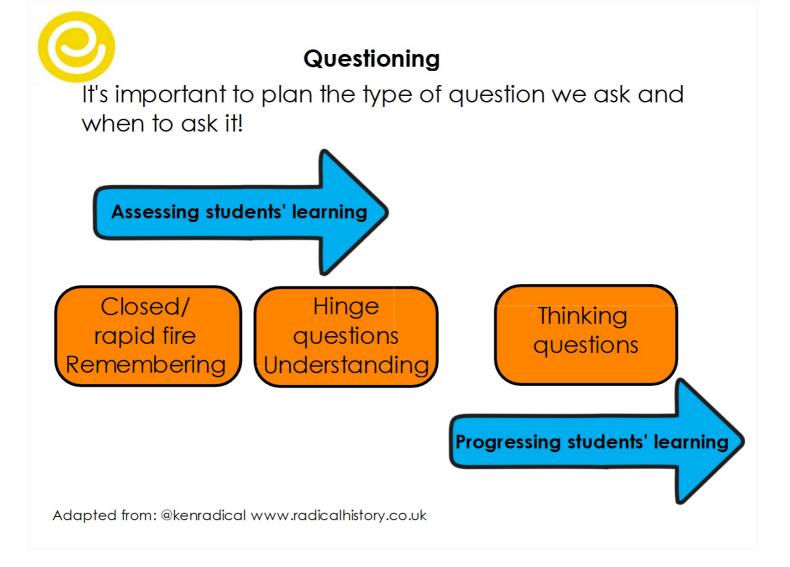
20% were procedural.

20% encouraged thinking.





How to encourage a culture of inquiry





Hinge questions

- Usually multiple choice
- Checks understanding for all students
- Students should reveal answers at the same time
- The teacher needs to set a 'pass rate'
- Any incorrect answers need to be explored
- A good opportunity for peer teaching

Hinge questions are used:

- A. to help the teacher explain something
- B. to assess overall understanding of a concept
- C. to inform progress reports
- D. to grade students





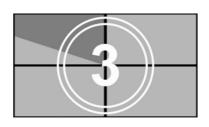
Thinking or Socratic questions



Can you give me an example?
What problem are you trying to solve?
What would happen if....?
What evidence is there that supports....?
Who would be affected and what would they think?
What does our experience tell us will happen?
Why do you think I asked that question?



Implement a 'no hands' policy



Allow at least 3 seconds thinking time

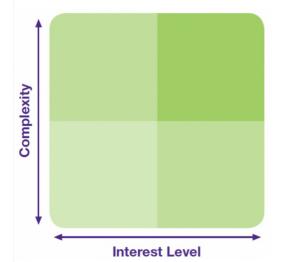


Flip it - give students the answer and ask them to provide the question





Introduce a wall of wonder



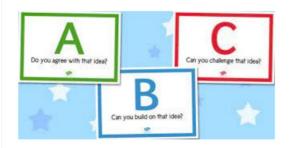
Introduce a question continuum



Encouraging different interaction patterns when questioning other than T-Ss and Ss-T.



Pose - pause - pounce - bounce (PPPB it)



Agree, build on, challenge ABC it!

Giving an opinion

I think/reckon that...

I believe that....

In my view.....

Agreeing

I agree with because

I'd argue the same thing because....

The reason I agree with.... is.....

That's an interesting point because....

Building

Building on what said.....

I'd also add that.....

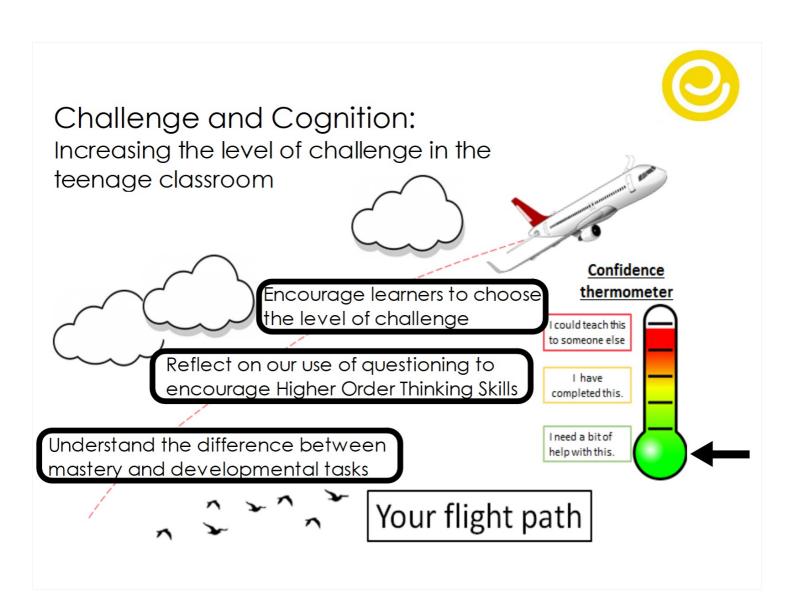
I'd like to build on's point of view and say that.....

Challenging

I'd like to challenge this view because...

My own view is different because...

I'd have to disagree because....



Encouraging learner choice and reflection on that choice



A chilli challenge

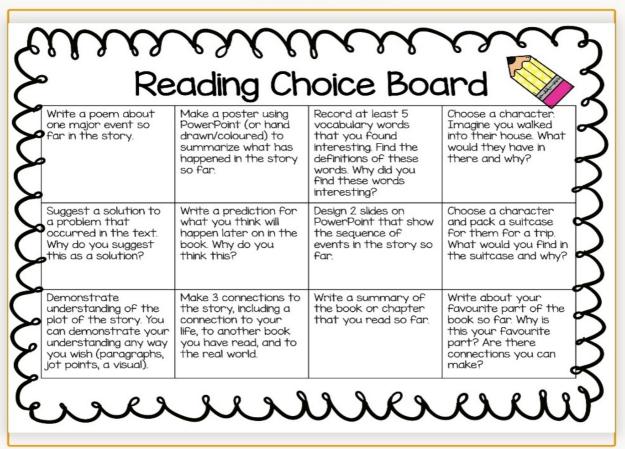


Was the challenge spicy enough?





A choice board



From: Jessica Fernandes

MENU CONTRACT

"Probability"	Due:

All items in the main dish and the specified number of side dishes must be complete by the due date. You may select among the side dishes and you may decide to do some of the desserts items, as well.





Main Dishes

- Complete the "meteorology simulation" on p. 88-89 of your textbook.
- Create a list of 10 pairs of events. 5 pairs should contain events that are *dependent*; 5 pairs should contain events that are *independent*. Explain each classification.
- Complete the "frequency table" assignment on p. 506-507 of your textbook.
- Examine the attached list of functions and determine which functions represent probability distributions.



Side Dishes (Select 2)

- Work with a partner to analyze the game of "Primarily Odd." See your teacher for game cubes and further instructions.
- Design a "game spinner" that has this probability distribution: P(red) =0.1; P(green) = 0.2; P(blue) = 0.3; P(yellow) = 0.4.
- Suppose a dart lands on a dartboard made up of four concentric circles. For the center of the board (the "bull's eye"), r=1.5; the remaining rings have widths of 1.5. Use your understanding of area and probability to determine the probability of 1) hitting a "bull's eye" and 2) landing in the outermost ring.



Desserts (Select 1)

- Figure the probability of "Murphy's Law" and make a case for whether or not it should indeed be a "law."
- Use a frequency table to chart the colors that your classmates wear for a week.

 Then, use probability to predict how many students will wear a certain color on a given day.

A menu choice

Are you satisfied with your order?



Thank you very much for attending our webinar!

If you want to get in touch, you can find us at team@eltonix.com or join our Facebook group, eltonix connects.