
Adolygiad Tacsonomeg Bloom


Can you...

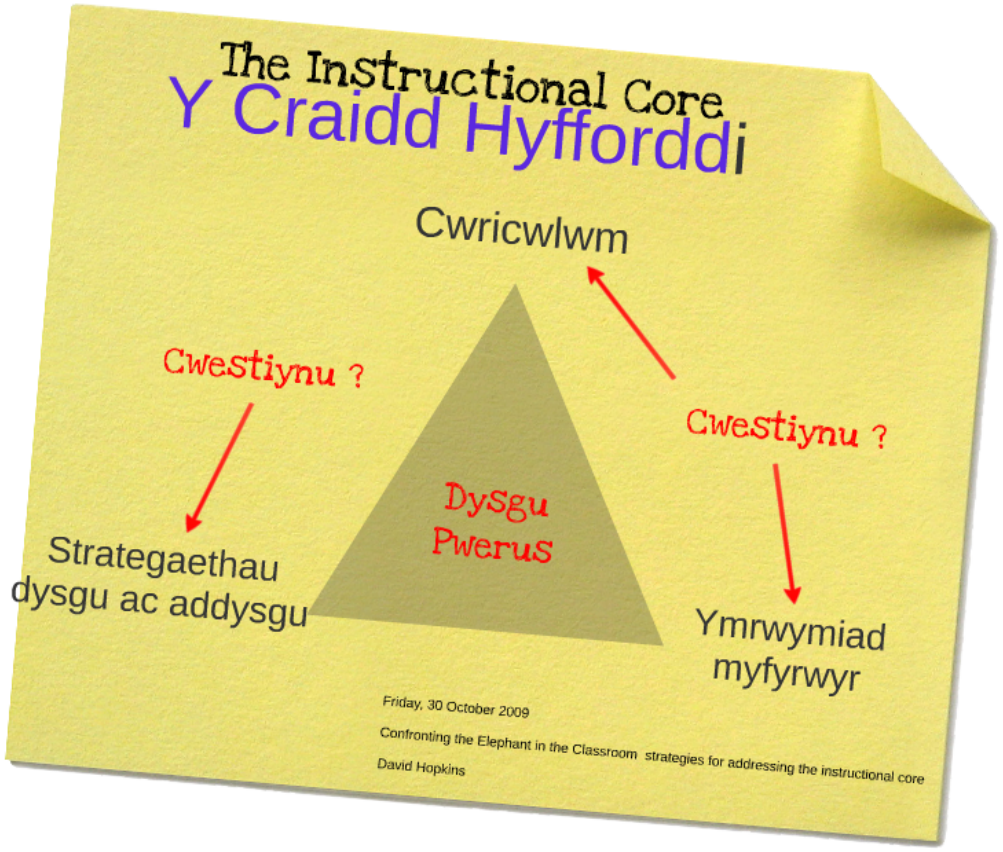

What are your nine top strategies?
Six Hats
Parallel Thinking
Contact details
JANUARY 2012
Appropriate Technology
Research on the Solution room for 4 key slides

PRIFYSGOL CYMRU
Y Drindod Dewi Sant
UNIVERSITY OF WALES
Trinity Saint David

Er...um...beth oedd y cwestiwn eto?

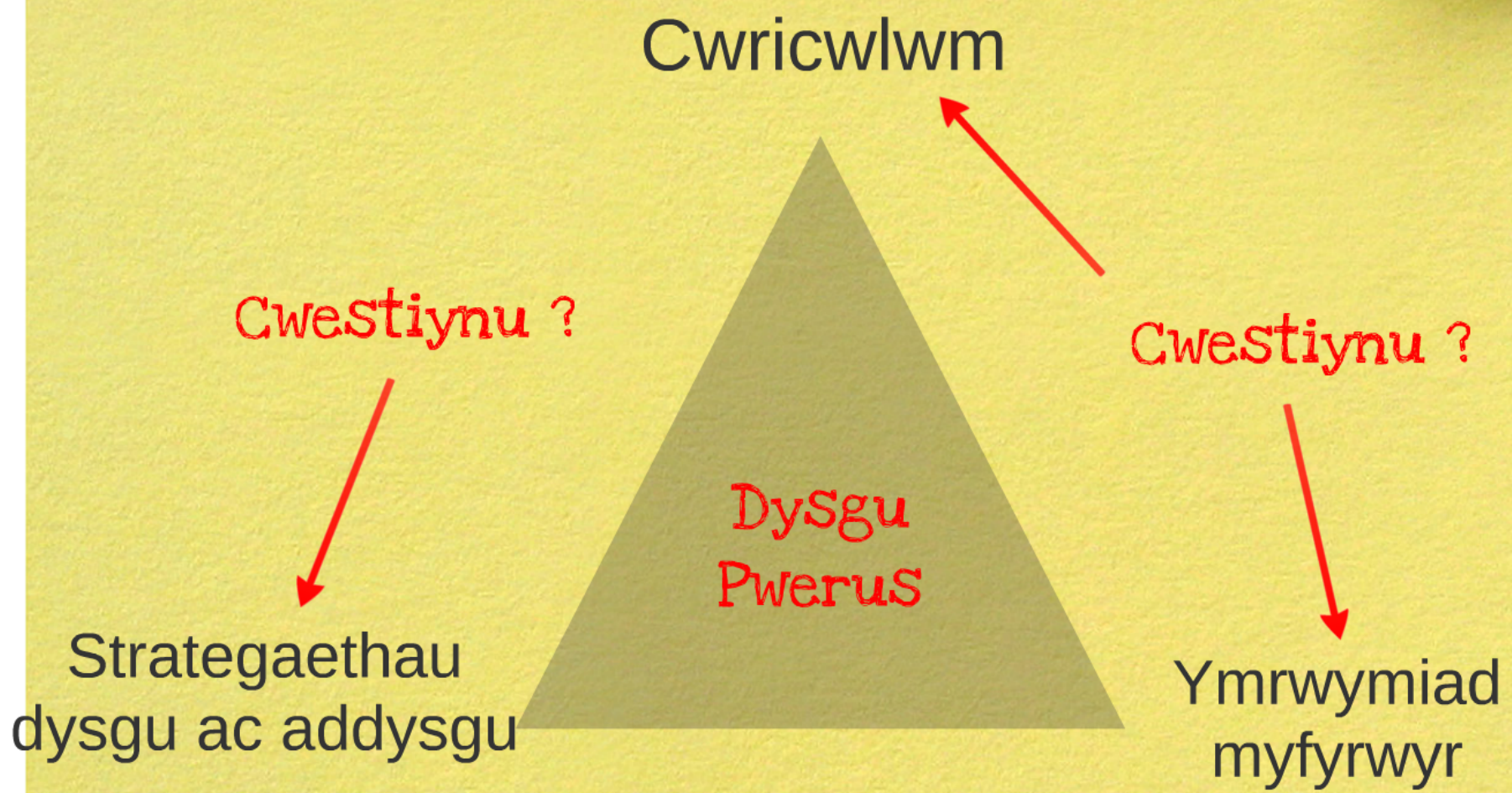


Canolfan Addysg Athrawon De-Orllewin Cymru
The South West Wales Centre of Teacher Education


The Instructional Core
Y Craidd Hyfforddi
Cwricwlwm
Cwestiynu ?
Cwestiynu ?
Dysgu
Pwerus
Strategaethau
dysgu ac addysgu
Ymrwymiad
myfyrwyr
Friday, 30 October 2009
Confronting the Elephant in the Classroom strategies for addressing the instructional core
David Hopkins

The Instructional Core

Y Craidd Hyfforddi

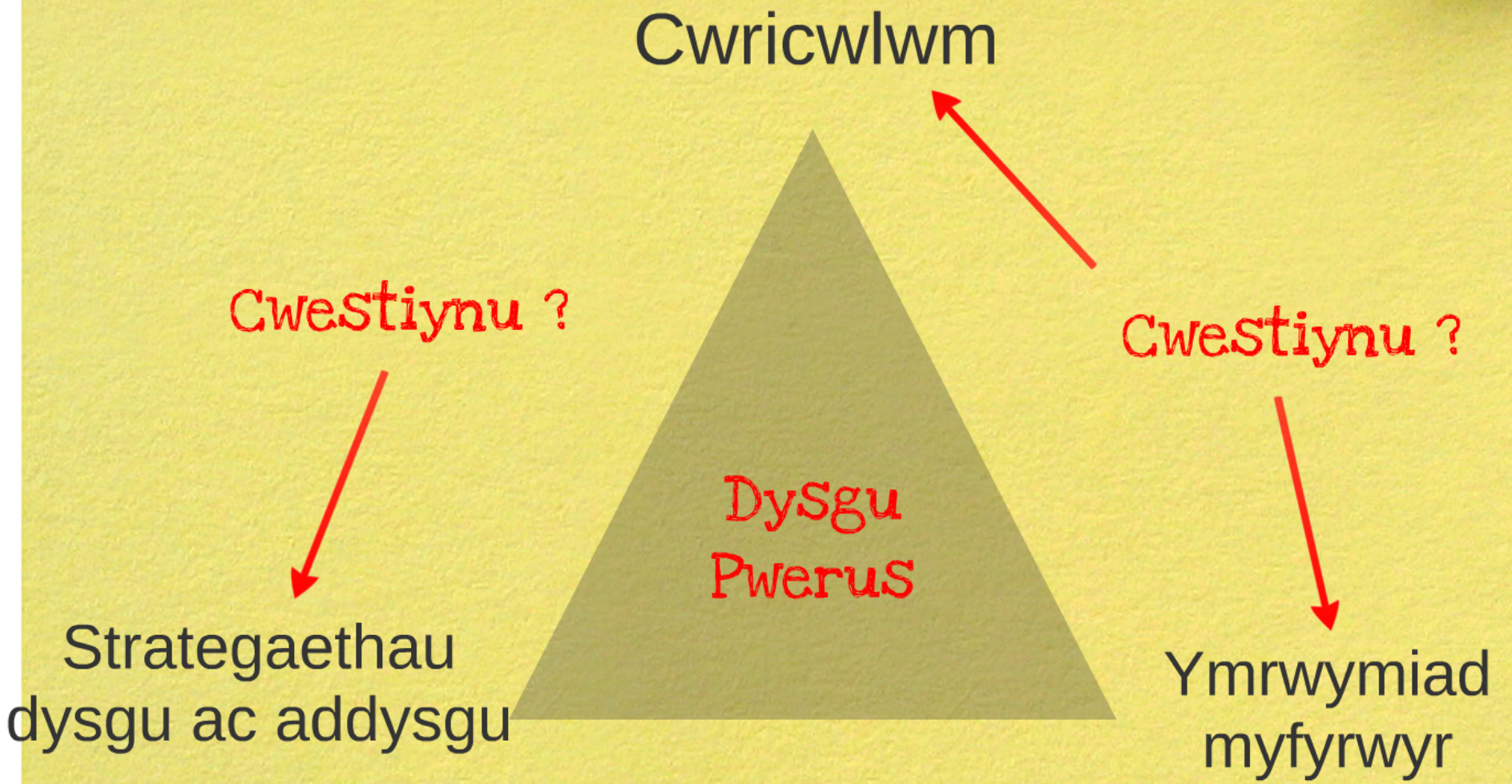


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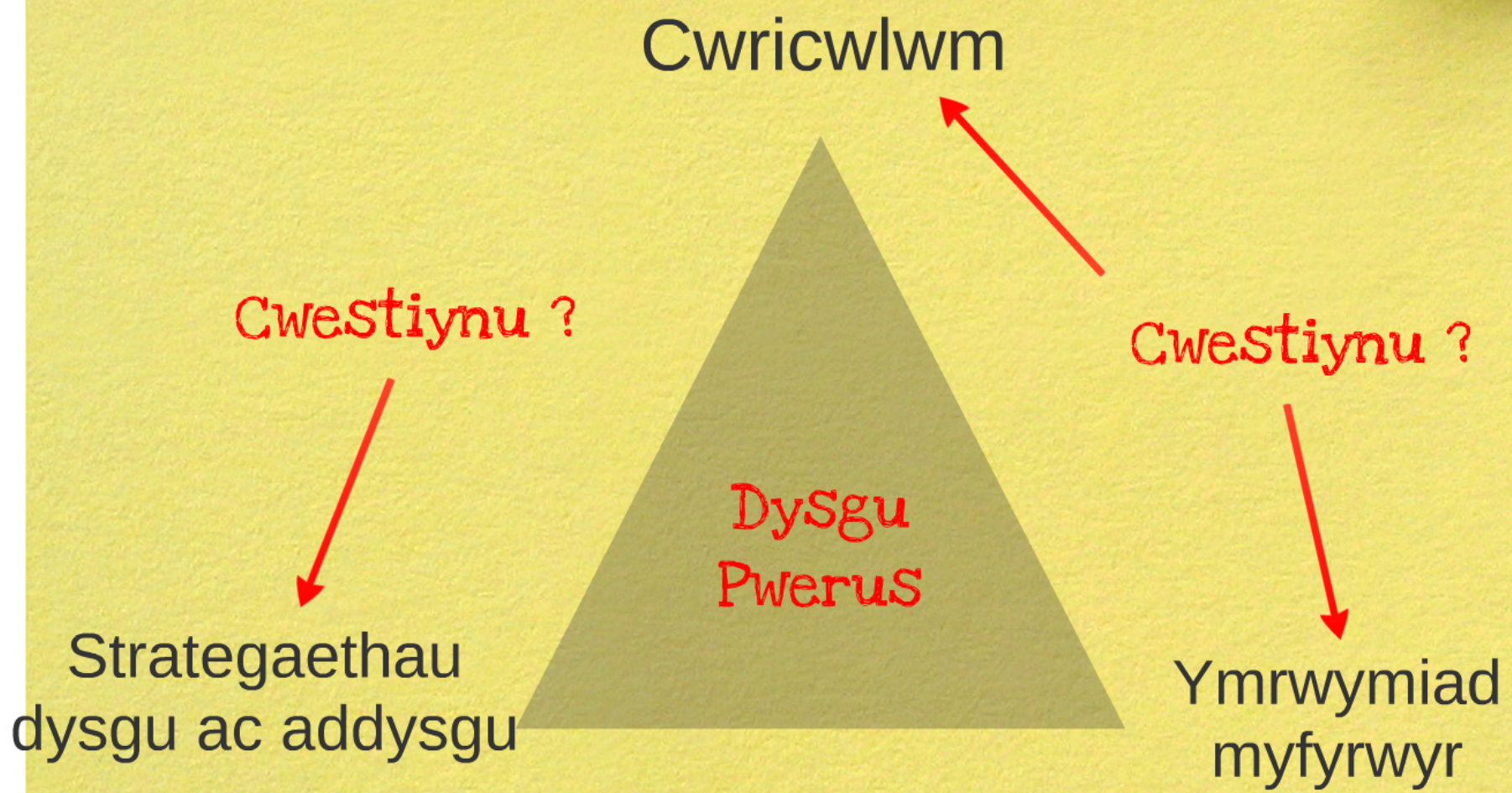
Confronting the Elephant in the Classroom strategies for addressing the instructional core

David Hopkins


C _ _ e s t _ _ _ _ n _ _
Manylion gwneud!
15
29

The Instructional Core

Y Craidd Hyfforddi



Friday, 30 October 2009

Confronting the Elephant in the Classroom strategies for addressing the instructional core

David Hopkins

Cyn

y

Dysgu



Ein taith heddiw...

Amcanion

- Er mwyn dyfnhau ein dealltwriaeth o bwysigrwydd holi..
- Er mwyn codi ein hymwybyddiaeth penodol o'r 'gwaith manwl' wrth ddefnyddio technegau holi.
- Er mwyn ehangu ein hamrywiaeth o dechnegau cwestiynu llwyddiannus.
- Er mwyn gwerthuso strategaethau cwestiynu benodol o ran effaith..

Ar gyfer mwy o ymrwymiad

Hey...BSYIF ?

w pwrpas y
yma?

Beth ydych chi'n edrych ymlaen at?

Beth nid oes angen arnoch chi?

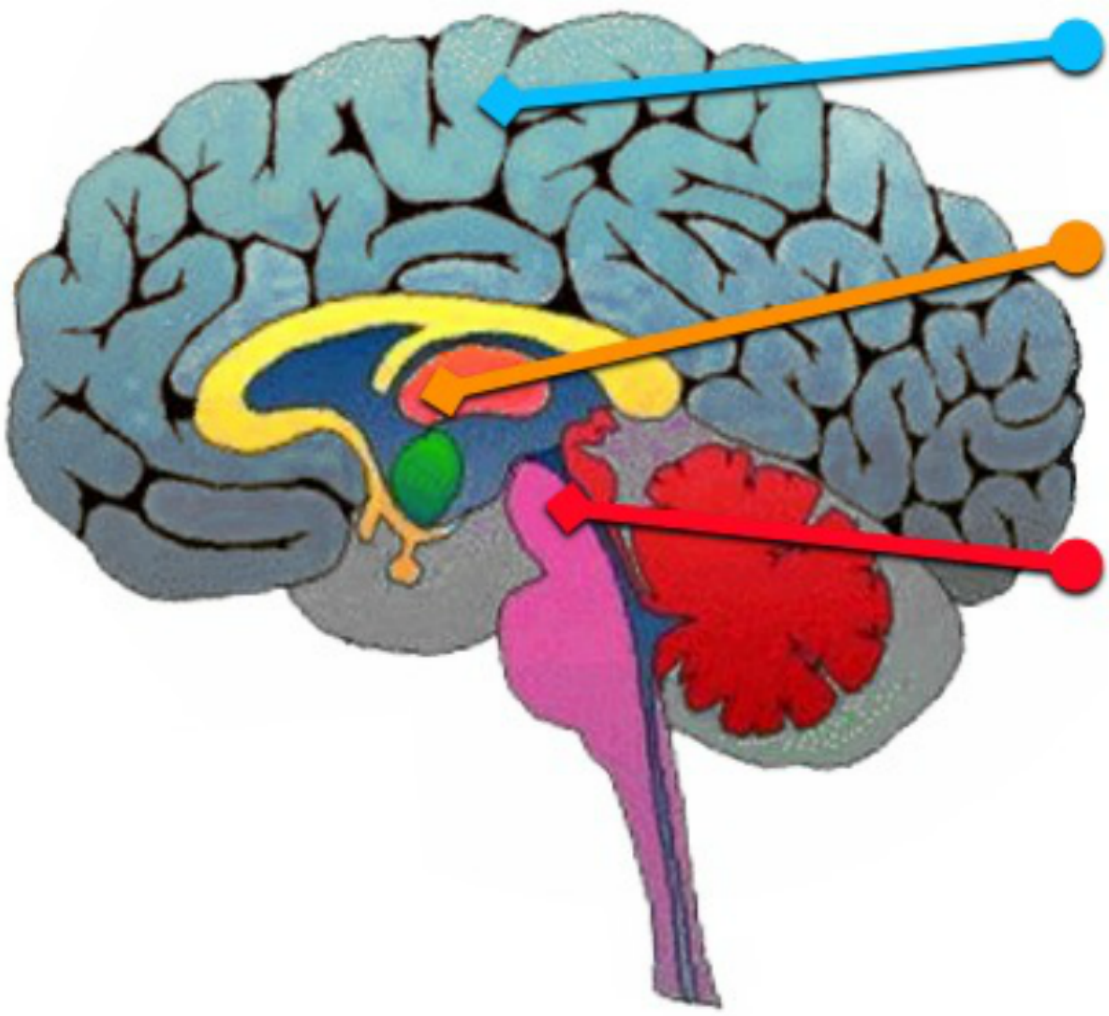
Beth yw pwrpas y lliwiau yma?

Amcanion

- Er mwyn dyfnhau ein dealltwriaeth o bwysigrwydd holi..
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- Er mwyn gwerthuso strategaethau cwestiynu benodol o ran effaith..

Ar gyfer mwy o ymrwymiad

Hey...BSYIF ?



Neocortex:
Rational or Thinking Brain

Limbic Brain:
Emotional or Feeling Brain

Reptilian Brain:
Instinctual or Dinosaur Brain

Brain is wired for survival

BSYIF = "Beth Sy ynddo i fi??"

Felly BSYIF Mathew?

Byddwch yn gadael gyda llawer o strategaethau ymarferol ar gyfer holi.

(cc) photo by jimmyharris on Flickr

Y Drindod Dewi Sant
Trinity Saint David

Er...um...beth oedd y cwestiwn eto?

Canolfan Addysg Athrawon De-Orllewin Cymru
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So why are you here Tom?

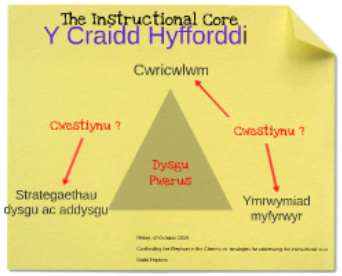
Senior Lecturer - innovation in teaching and Learning





C_ e s t _ _ n_

Manylion gwneud!







Gwella Ysgolion - Effeithiolrwydd

Lleihau maint dosbarthiadau 30%

Cynyddu cynnwys gwybodaeth athro o wan i gryf

Asesu / asesu ffurfiannol ar gyfer dysgu

Misoedd ychwanegol o ddysgu bob blwyddyn

4 (mewn 12 mis dosbarthiadau bach yn cyflawni'r hyn a wnaeth y dosbarthiadau mwy o faint mewn 16)

2

8

Dylan Wiliam (2009) Assessment for learning: why, what and how? London: Institute of Education

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Dylan Wiliam (2009) Assessment for learning: why, what and how? London: Institute of Education

The 4 Elements of AfL

Sharing criteria with learners	Quality of questions/ quality of talk	Use and quality of feedback	Peer and self assessment
Learners know what will make their work good.	*All learners actively think up answers to good, open questions.*	*Ongoing feedback keeps learning on track.*	*Learners benefit from evaluating each other's work.*
Learners know where they are, and the next step, according to the criteria.	*Learners explain ideas to each other, reinforcing their learning and understanding.*	*Learners act on the feedback there and then. Learners take the next step.*	*Learners gradually become more independent by learning how to self-assess.*

Assertive questioning
Cwestiynu pendant



Grwpiau "Buzz"
Buzz Groups



Teacher monitors
"You ok?"
"Need a hint?"
"Do you need more time?"
"everyone got an answer?"

Athro yn monitro
"chi'n iawn?
angen awgrym?
ydych chi angen mwy o amser?
pawb yn cael ateb?

NO ANSWERS GIVEN!

Teacher nominates one member from each group to give group answer

Athrawon yn enwebu ar aelod o bob grŵp i roi ateb grŵp

Thank you
Justify - Why do you think that?
Who agrees/something different?
Teacher does not evaluate!

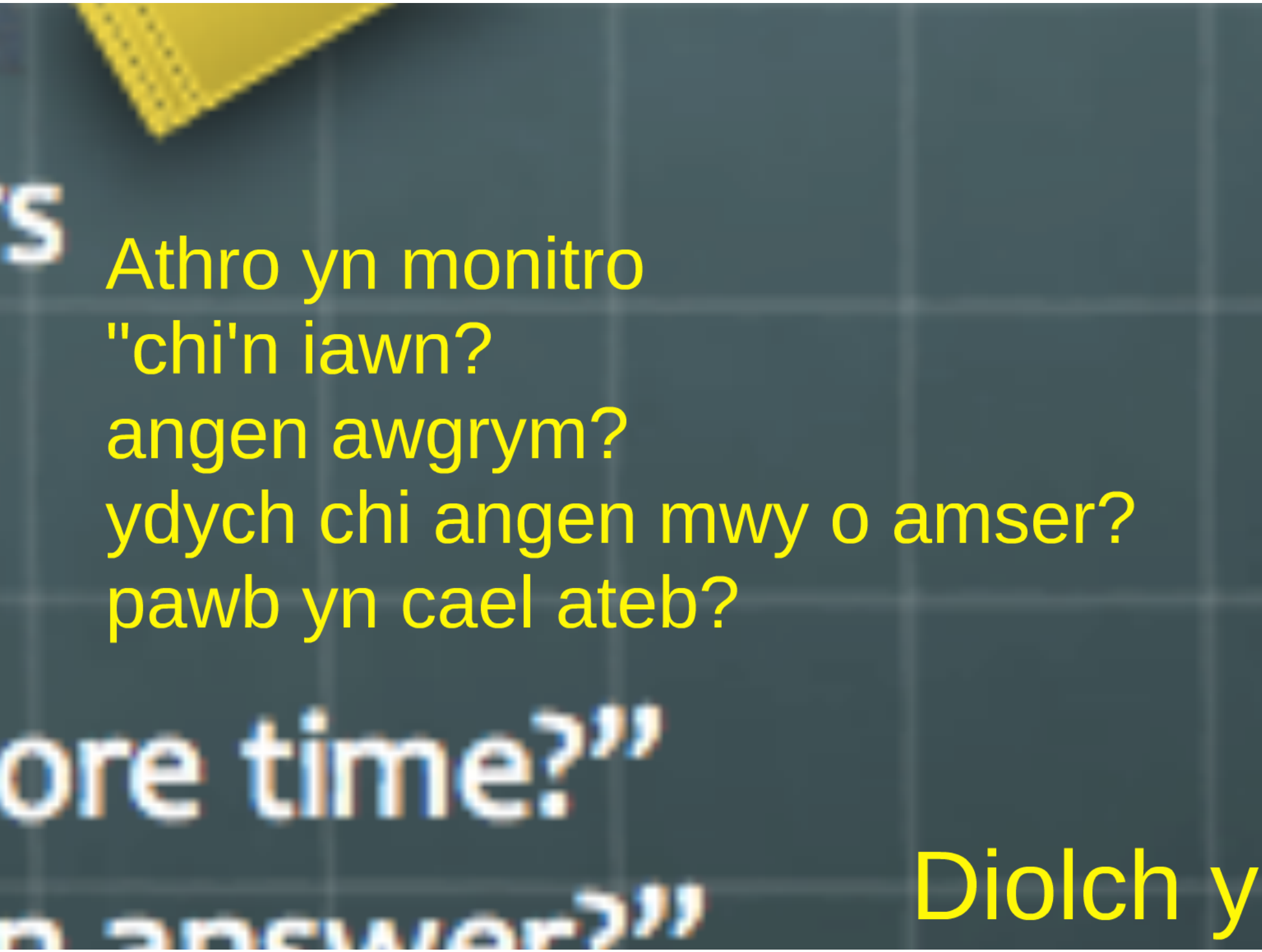
Diolch yn fawr
Cyfiawnhewch - Pam ydych chi'n meddwl hynny?
Pwy sy'n cytuno / rhywbeth gwahanol
Nid yw athro yn gwerthuso!

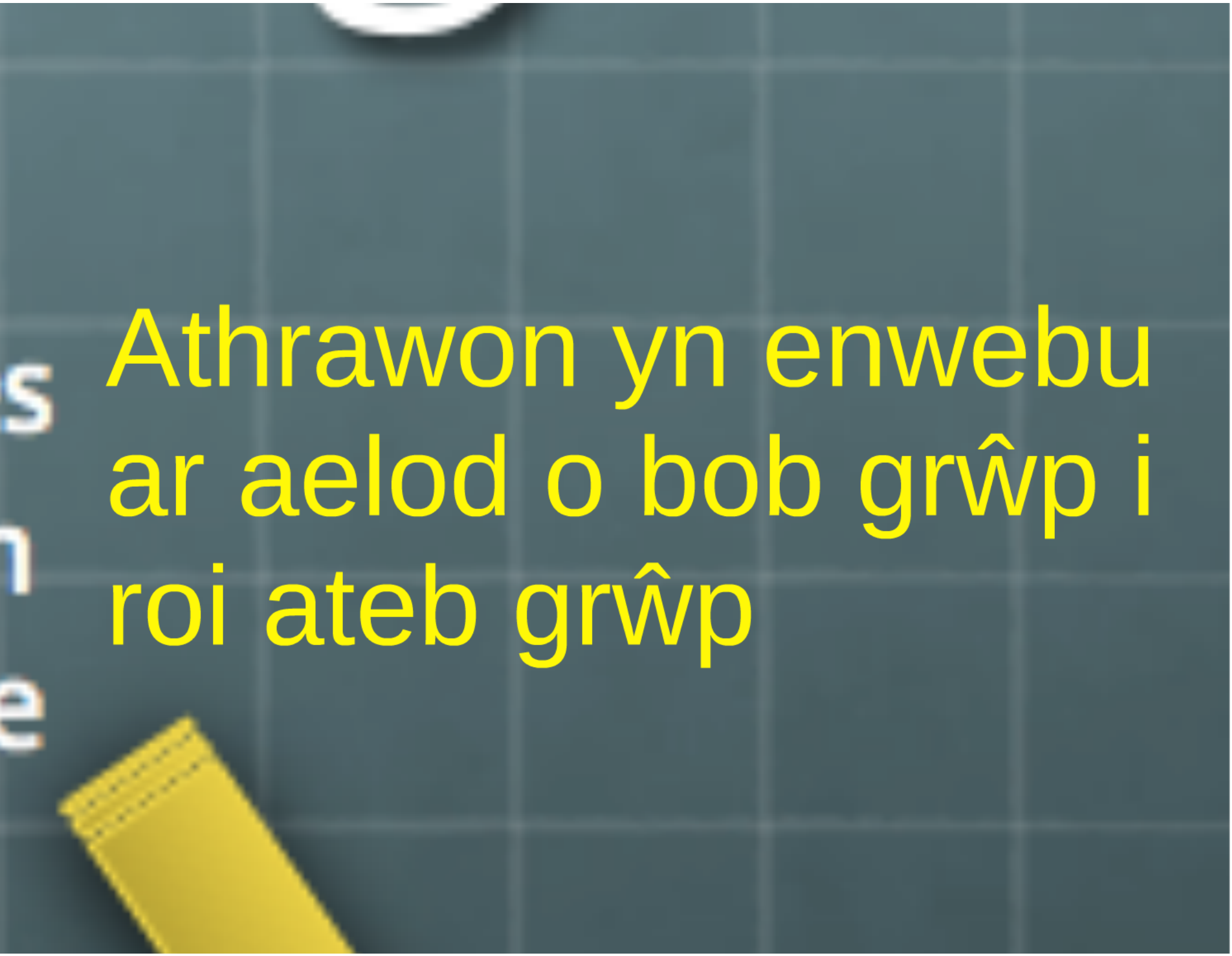
Teacher - Point out inconsistencies
Athro - Tynnu sylw at anghysondebau

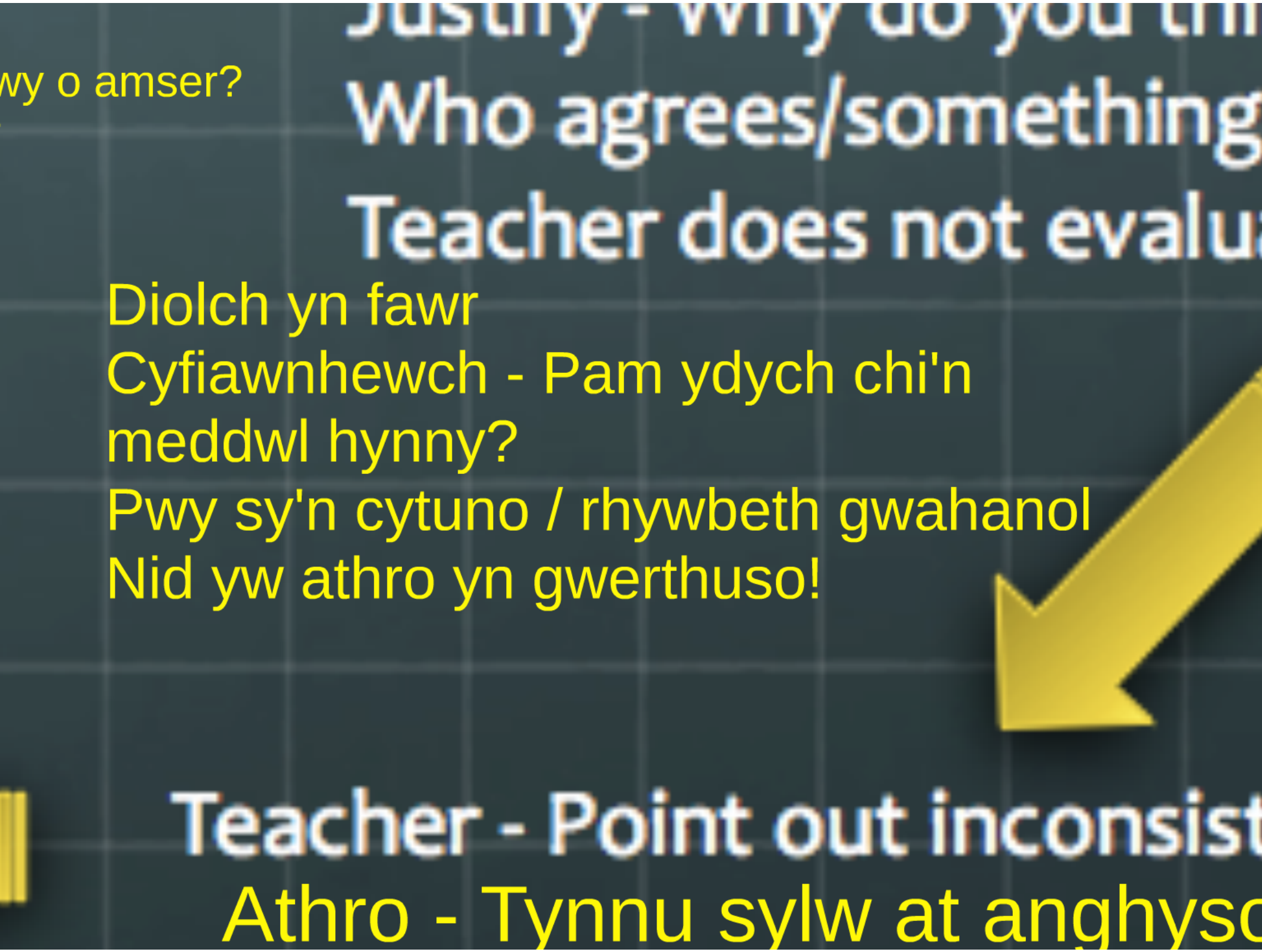
Consensws - Ateb dosbarth
Consensus - 'class answer'

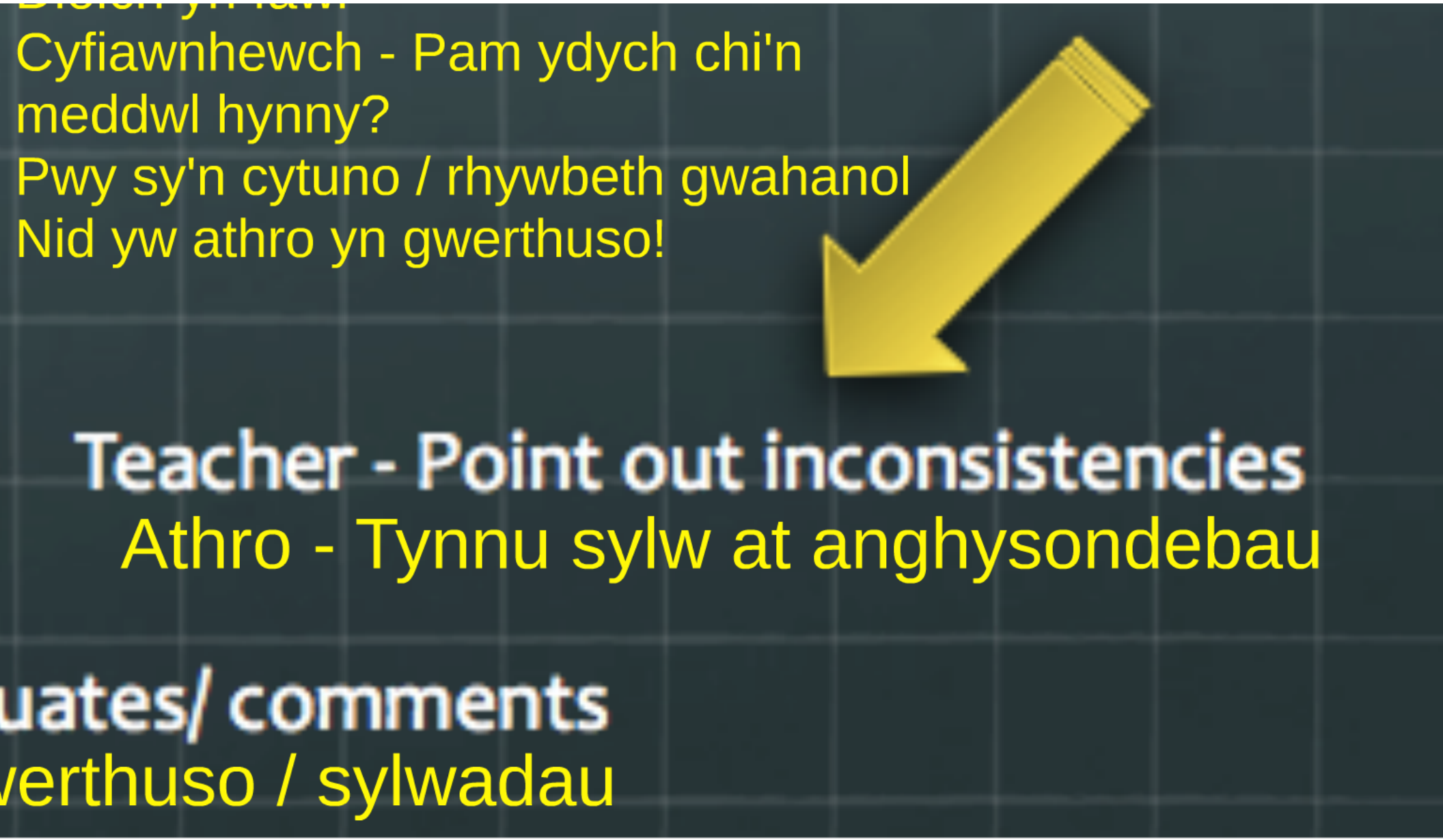
Teacher 'gives away' right answer or evaluates/ comments
Athro 'yn rhoi ffwrdd' yr ateb cywir neu yn gwerthuso / sylwadau

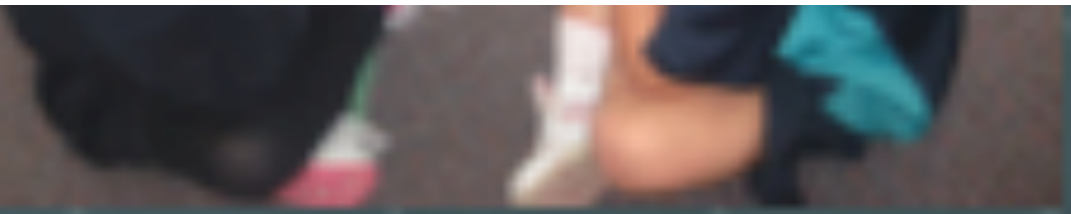

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Buzz Groups


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ydych chi angen mwy o amser?
pawb yn cael ateb?
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Diolch y


Athrawon yn enwebu
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Who agrees/something
Teacher does not evalu
Diolch yn fawr
Cyfiawnhewch - Pam ydych chi'n meddwl hynny?
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uates/ comments
verthuso / sylwadau



"everyone go

NO ANSWERS GIVEN!

Consensws - Ateb dosbarth

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Teacher 'gives away' righ

Assertive questioning
Cwestiynu pendant



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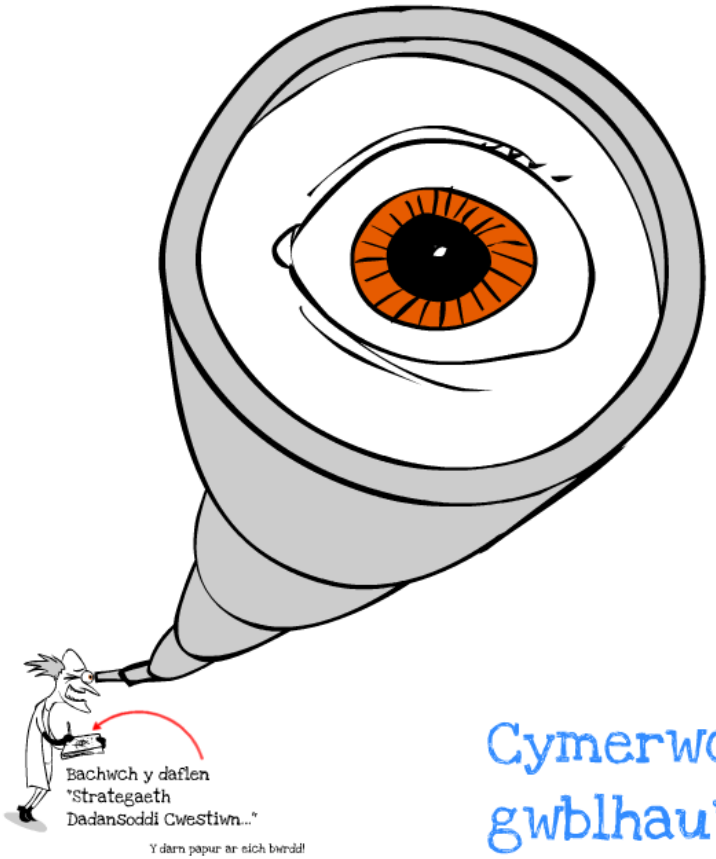
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Teacher 'gives away' right answer or evaluates/ comments
Athro 'yn rhoi ffwrdd' yr ateb cywir neu yn gwerthuso / sylwadau



Y darn papur ar eich bwrdd!

Pa un yw'r ffactor mwyaf pwysig i chi?



...cyfradd cyfranogiad

... Adborth Athrawon

... Adborth myfyrwyr

... Amser Meddwl

... Cysur Myfyrwyr

Cymerwch beth amser i gwblhau'r grid gyda ffrind.

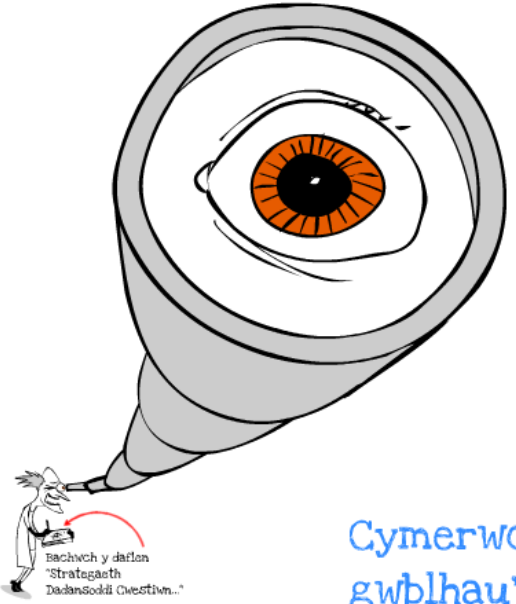
Adborth mewn 10 munud.

Pa dechnegau sy'n hyrwyddo cyfranogiad da?



Augmenta

Pa un yw'r ffactor mwyaf pwysig i chi?



...cyfradd cyfranogiad
... Adborth Athrawon
... Adborth myfyrwyr
... Amser Meddwl
... Cysur Myfyrwyr





Cymerwch beth amser i gwblhau'r grid gyda ffrind.

Adborth mewn 10 munud.

Pa dechnegau sy'n hyrwyddo cyfranogiad da?

deg drwy y manylion i ymneud a ...

dborth mewn

Pa dechnegau Sy'n hyrwyddo cyfranogiad da?

Pêl-fasged nid Ping Pong!

Bownsio atebion o gwmpas yr ystafell i adeiladu ar ddealltwriaeth yna chael myfyrwyr yn datblygu rhesymu cryfach allan o gamsyniadau.



E.e.
“Jimmy, beth yw eich barn am Sandra yn ateb?”

“Sandra, sut y gallech ddatblygu ateb Carl i gynnwys mwy o fanylion?”

“Carl, sut y byddwch yn cyfuno yr atebion i gyd mewn i ateb un?”

1. Pose 1. Gofyn



2. Pause 2. Saib



3. Pounce



3. Panlwch

4. Bounce



4. Adlamwch



Camgymeriadau cyffredin a wneir gan athrawon dibrofiad.



Geirfa rhy gymhleth.

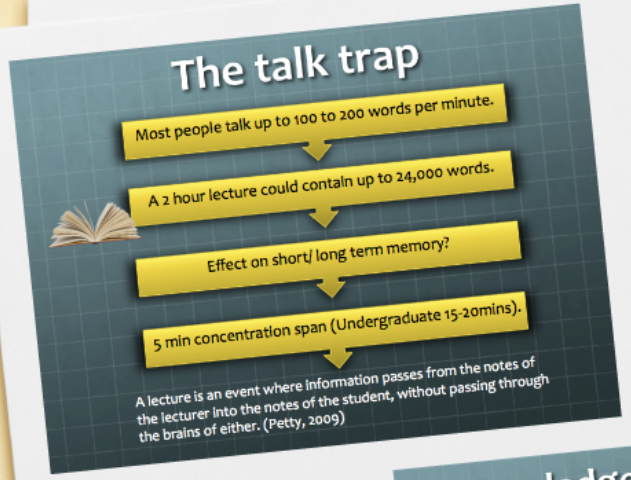
Dim digon o 'amser aros'.

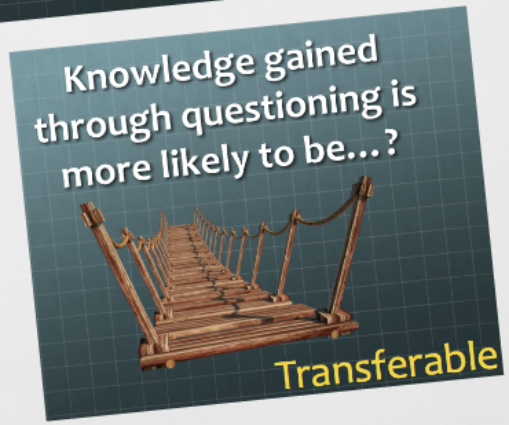
Dim digon o atgyfnerthu (canmoliaeth).

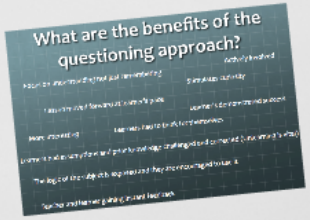
Aml ddim yn gallu ysgogi myfyriwr i mewn i gynhyrchu ymateb defnyddiol.



Trevor Kerry (1982)







Meddyliwch am un pwynt dysgu unigol ... dysgwch mewn 1 munud yn defnyddio cwestiynau yn unig!

Teacher Talk - Sgwrsio Safonol

Sgwrsio safonol yw'r dull addysgu mwyaf cyffredin
60% o ran fwyaf o wersi (Petty, 2009)
Gall sgwrsio safonol helpu wrth 'Esbonio' a 'gwneud manwl'
Sgwrsio safonol yn ddull 'didactig' neu athro-ganolog

Teacher talk is most common teaching method
Ave 60% of most lessons (Petty, 2009)
Teacher talk can help with 'Explanation' and 'doing detail'
Teacher talk is a teacher-centred or 'didactic' method





Gadewch i ni feddwl gyda'n gilydd

Sgwrsio Safonol

Positif

Dull cyfleus i gyflwyno eglurhad.
Yn wahanol lyfr, gall y cynnwys cael ei haddasu ar gyfer anghenion y dosbarth.
Gall fod yn ysbrydoledig.
Ychydig o baratoi (profiadol)
Cyflwyno deunydd yn gyflym.
Yn fwy personol na'r dulliau ysgrifenedig



Sgwrsio Safonol

rhybudd!

Nad yw'n ofynnol i'r Dysgwr i ffurfio unrhyw ddealltwriaeth neu adeiladu / defnyddio syniadau
Dim adborth ar ddealltwriaeth a yw wedi digwydd
Cadw i'r côf yn isel
Un cyflymder gyda dosbarth cyfan
Athrawon dibrofiad cyflwyno yn rhy gyflym
Gall fod yn ddiflas
Dim cyfranogiad gweithredol
Rhychwant canolbwyntio byrrach



Pam y gallai 'sgwrsio safonol' fod fel bugeilio gwartheg gyda Ferrari?





Sut allwn ni wella sgwrsio safonol ?

Cwestiynu



Cwestiynu yw un o'ch dulliau mwyaf grymus ... pam?

Gadewch i ni gymharu dau athro sy'n datblygu yr un pwynt dysgu.

Maent yn addysgu plant yn DTh, sut i arddangos y cacennau maent wedi eu gwneud, yn y neuadd ginio.

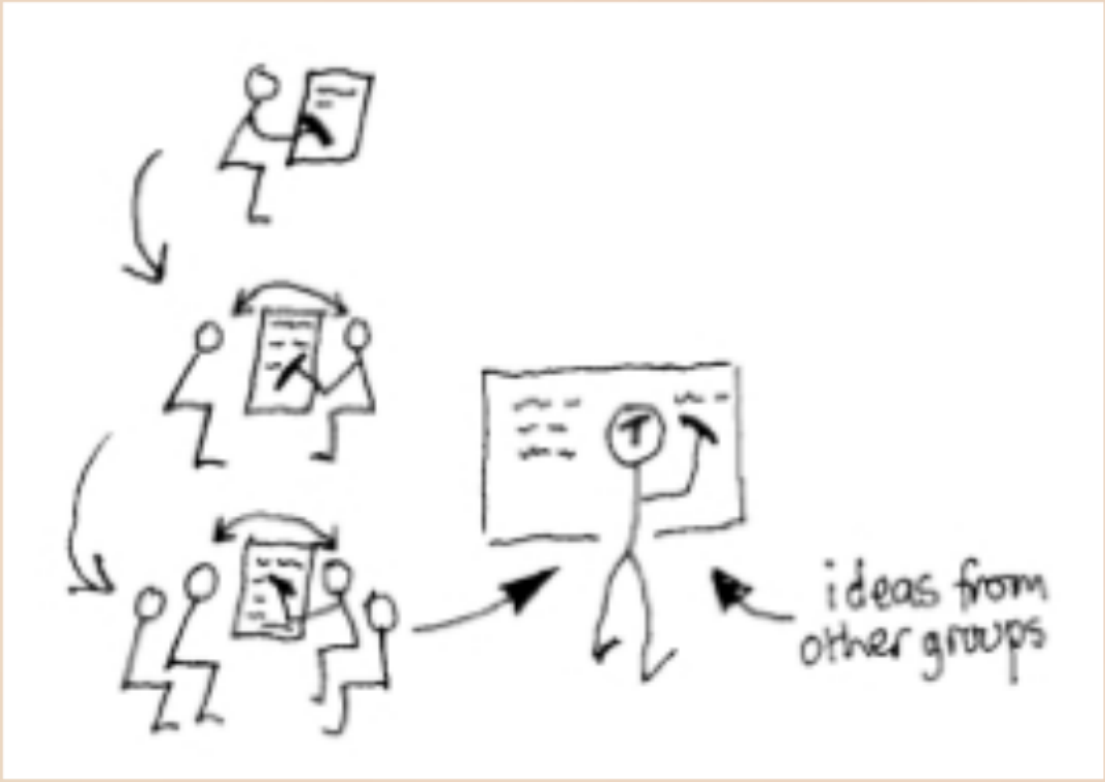
Gweithgaredd chwarae rôl

Mae gwybodaeth a geir trwy gwestiynu yn fwy tebygol o fod yn ...?



Trosglwyddiadol

Snowballing - Pêlen-eira



Amrywiwch y mathau o gwestiynau

pryd

sut

pwy



ble

beth

paham

Y gwahaniaeth



Questioning types

Trevor Kerry (1982)

Question Type	Example
Data recall	What is the capital of France?
Naming	What is the name of the bone in the thigh?
Observation	What colour was the litmus paper?
Control	Will you sit down John?
Pseudo-question	(Open Q but teacher expects one answer) What do you see here?
Higher-order question types	
Speculative hypothesis	What would happen if all trees were cut down?
Give reasons	Why do people in the third world chose to have so many children?
Evaluation	What evidence is there for and against the existence of an afterlife
Problem-solving	How can we drill the metal without overheating?

The talk trap

Most people talk up to 100 to 200 words per minute.



A 2 hour lecture could contain up to 24,000 words.

Effect on short/ long term memory?

5 min concentration span (Undergraduate 15-20mins).

A lecture is an event where information passes from the notes of the lecturer into the notes of the student, without passing through the brains of either. (Petty, 2009)

What are the benefits of the questioning approach?

Actively involved

Focus on understanding not just remembering

Stimulates curiosity

Lesson moved forward at learner's pace

Learner's demonstrated success

More interesting

Learners had to think for themselves

Learners had assumptions and prior knowledge challenged and corrected (Unlearning is vital)

The logic of the subject is exposed and they are encouraged to use it

Teacher and learner gaining instant feedback

Rhedeg drwy y manylion i ymneud a ...



Thechnegau cwestiynu

Gwiwer Cudd -Secret Squirrel'





Gwyneb pocer



Poker Face

Efallai - gall - 'Might'

When questioning, insert the word 'might' to give students greater opportunity to think and explore possible answers.

e.g.

What is meaning of democracy?

What might the meaning of democracy be?

The first infers a single answer known by the teacher whereas the second is inherently more open.



amSer aroS

(0.9 eiliad)

Amser aros yn rhoi amser i fyfyrwyr feddwl ac felly i gynhyrchu atebion. Yn ogystal, nid yw pawb yn y dosbarth yn meddwl ar yr un cyflymder neu yn yr un modd - mae aros cynnaliol myfyrwyr i adeiladu ar eu meddyliau ac archwilio'r hyn a olynnwyd.

3 fath o amser aros -

Athrawon yn siarad ac yna'n aros cyn cymryd ymateb/ion y myfyrwyr.

Ymateb y myfyrwyr yn dod i ben ac yna'n aros cyn ymateb. Mae hyn yn rhoi'r cyfle i fyfyrwyr i ymhelaethu neu barhau - neu i fyfyriwr arall i ymateb.

Peidiwch â gwanhau'r cwestiwn





Pêl-fasged nid Ping Pong!

Bownsio atebion o gwmpas yr ystafell i adeiladu ar ddealltwriaeth yna chael myfyrwyr yn datblygu rhesymu cryfach allan o gamsyniadau.

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Parau Pili Pala



partneriaid perffaith



Llygad Cyswllt
Iaith y corff
Cymerwch dro
Gwrando
Amser



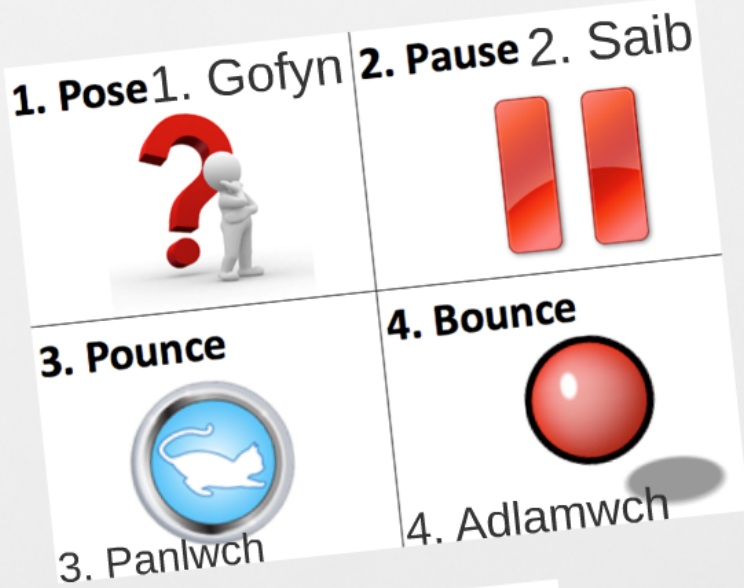


Enghreifftiau o Gwestiynau

A ydi pysgod yn crio?

Pe gallai blodau siarad, beth fydden nhw'n ei ddweud?

Pam mae glaw yn wlyb?

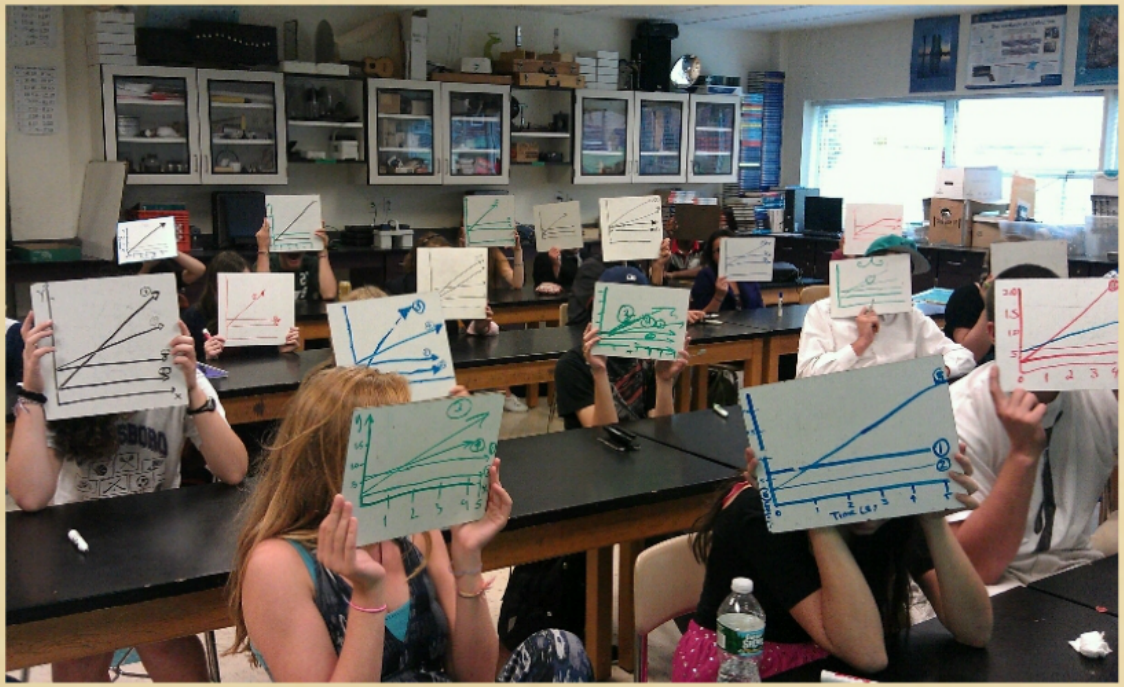






Gwiwer Cudd -Secret Squirrel'

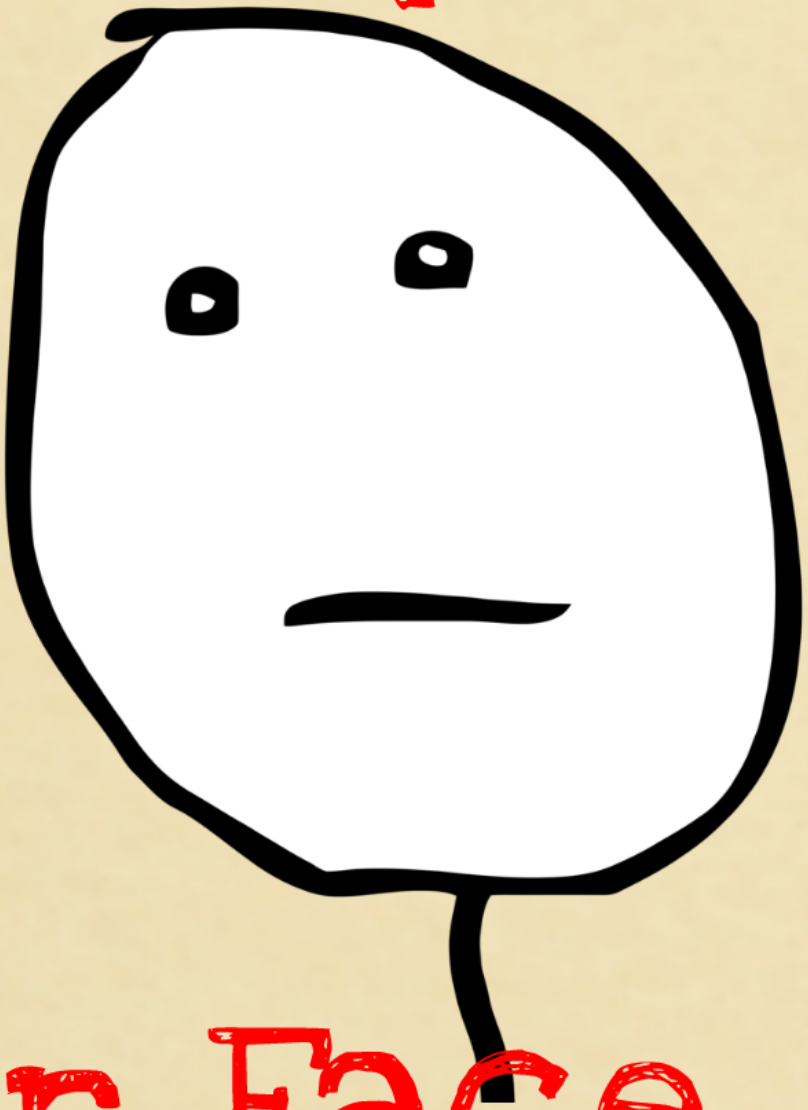





LADY GAGA
POKER FACE

Gwyneb pocer





Poker Face

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e.g.

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What might the Great Depression look like today?

amser aros

(0.9 eiliad)



Amser aros yn rhoi amser i fyfyrwyr feddwl ac felly i gynhyrchu atebion. Yn ogystal, nid yw pawb yn y dosbarth yn meddwl ar yr un cyflymder neu yn yr un modd - mae aros caniatáu myfyrwyr i adeiladu ar eu meddyliau
ac archwilio'r hyn a ofynnwyd.

2 fath o amser aros -

Athrawon yn siarad ac yna'n aros cyn cymryd ymatebion y myfyrwyr.



Ymateb y myfyrwyr yn dod i ben ac yna'n aros cyn ymateb. Mae hyn yn rhoi y cyfle i fyfyrwyr i ymhelaethu neu barhau - neu i fyfyriwr arall i ymateb.

Peidiwch â gwanhau'r cwestiwn

Llinell Sicrwydd







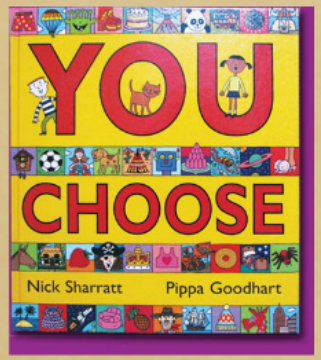
Parau Pili Pala

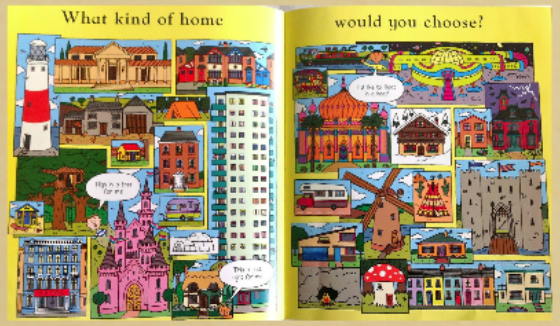


partneriaid perffaith



Llygad Cyswllt
Iaith y corff
Cymerwch dro
Gwrando
Amser



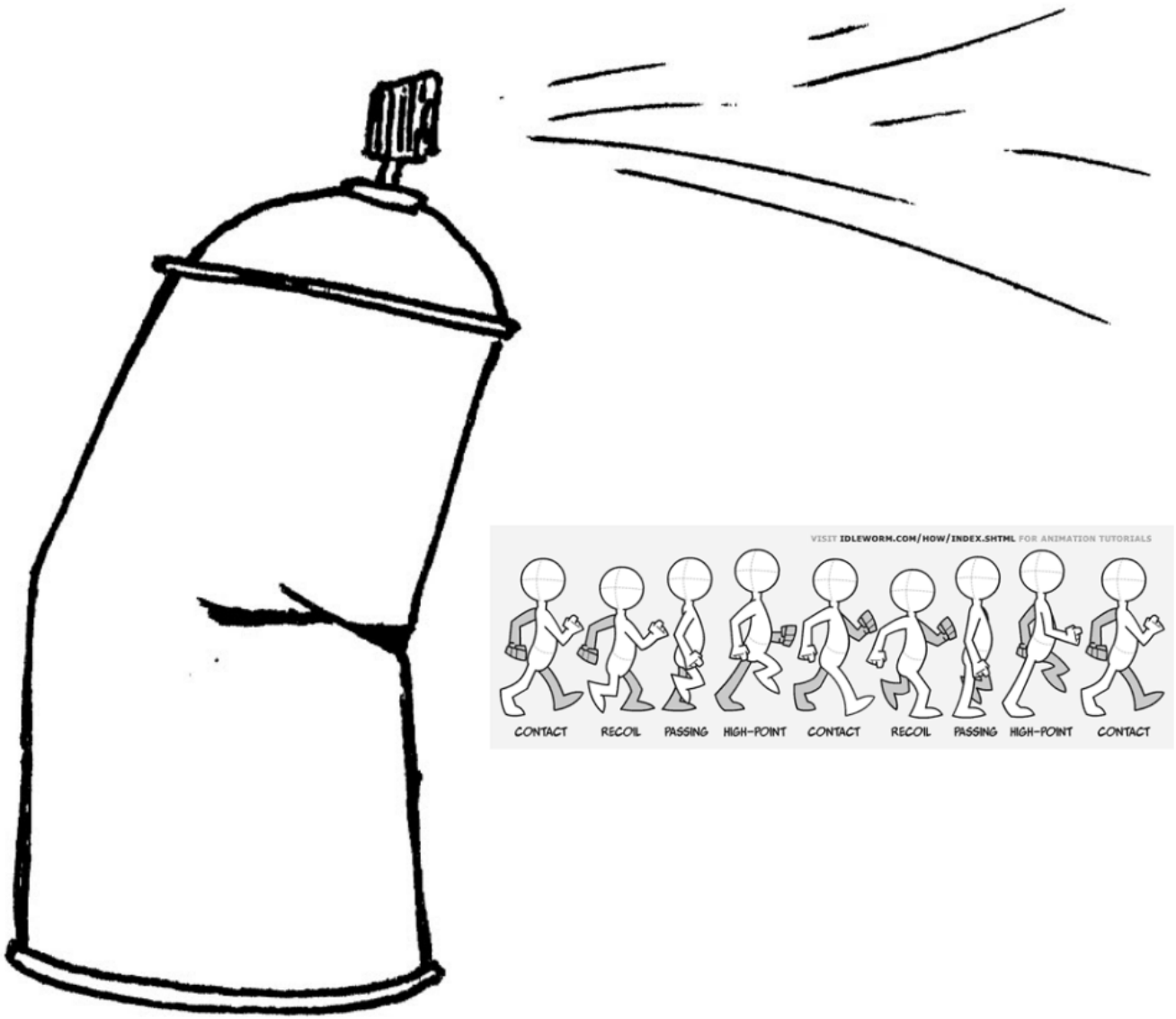


Enghreifftiau o Gwestiynau

A ydi pysgod yn crio?

Pe gallai blodau siarad, beth fydden nhw'n e ddweud?

Pam mae glaw yn wlyb?


VISIT IDLEWORM.COM/HOW/INDEX.SHTML FOR ANIMATION TUTORIALS
CONTACT
RECOIL
PASSING
HIGH-POINT
CONTACT
RECOIL
PASSING
HIGH-POINT
CONTACT

Meddyliwch am un pwynt dysgu unigol ... dysgwch mewn 1 munud yn defnyddio cwestiynau yn unig!


RUN FOR
YOUR LIVES!



ATTACK OF THE 50-FOOT MOUSE

NOW IN PREVISION™

Camgymeriadau cyffredin a wneir gan athrawon dibrofiad.



Geirfa rhy gymhleth.

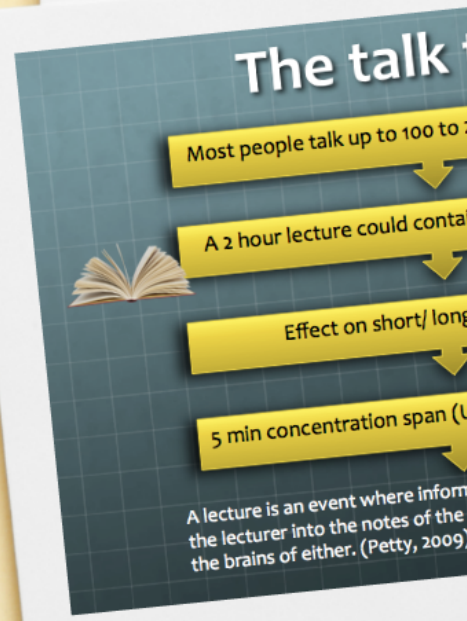
Dim digon o 'amser aros'.

Dim digon o atgyfnerthu (canmoliaeth).

Aml ddim yn gallu ysgogi myfyriwr i mewn i gynhyrchu ymateb defnyddiol.

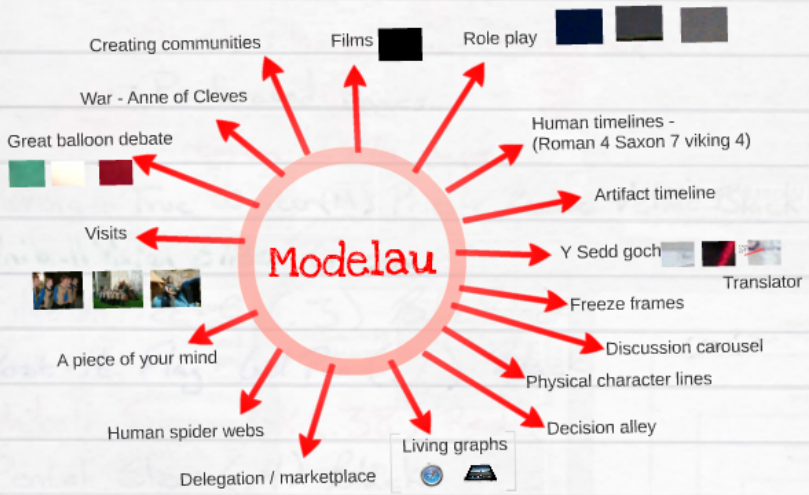


Trevor Kerry (1982)



Meddyliwch am un pwy
unigol ... dysgwch mewn 1
defnyddio cwestiynau

Active learning strategies





- Intellectual processing of info
- Abstract reasoning
- Search for novelty

- Long term memory

Urine!

- Rituals
- Fight or flight
- Territory
- Mating

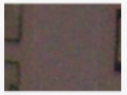
Modelau

Creating communities

Films

Role play





War - Anne of Cleves

Great balloon debate





Human timelines -
(Roman 4 Saxon 7 viking 4)

Artifact timeline

Visits





Y Sedd goch





Translator

Freeze frames

Discussion carousel

Physical character lines

Decision alley

Living graphs




Delegation / marketplace

Human spider webs

A piece of your mind

Artifact timeline

Y Sedd goch







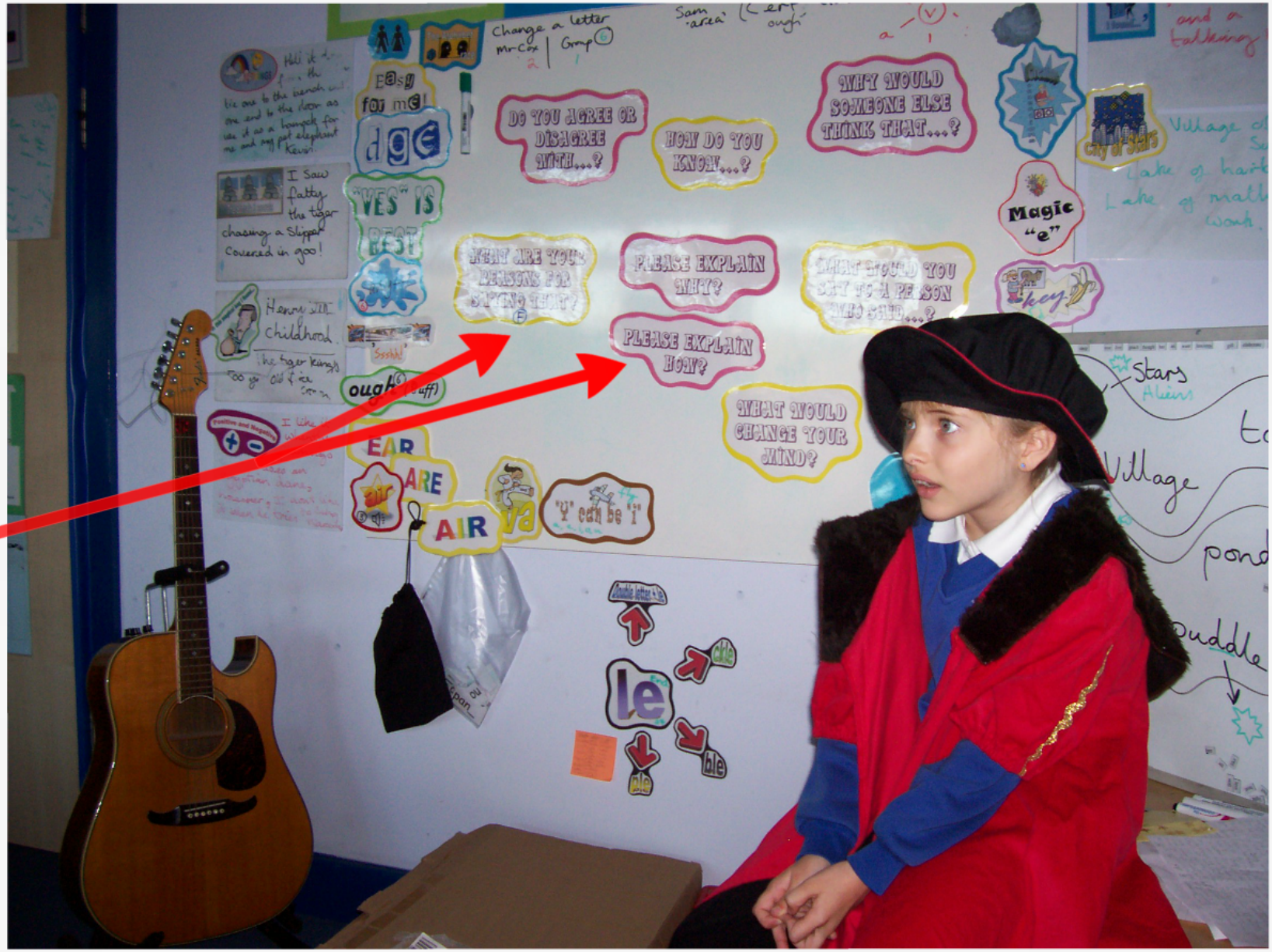
Translat

Freeze frames


bed
Verb
Adverb
Easy for me!
dge
"YES" IS BEST
ough (uff)
EAR
ARE
AIR
Magic "e"
le
Do you agree or disagree with...?
How do you know...?
Why would someone else think that...?
What are your reasons for saying that?
Please explain why?
Please explain how?
What would you say to a person who said...?
What would change your mind?
City
Lake
Pigs
ARBITER


Magic "e"
City
Stars
Aliens
Village
moons
Lake
pigs

Strwythurau cwestiynau strwythedig yn gymorth mawr



Holi lefel uwch





1 Highest

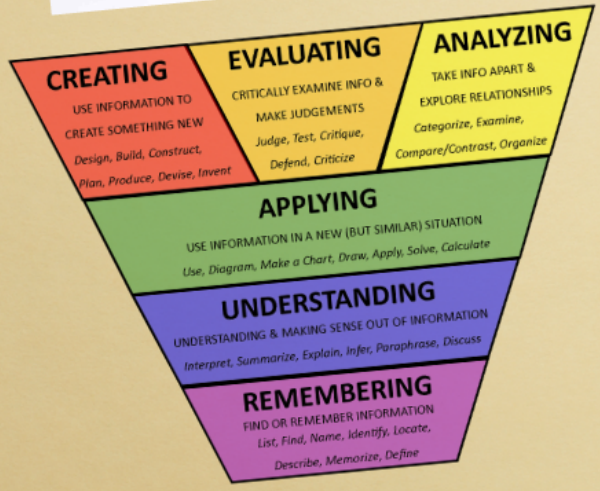
2 3

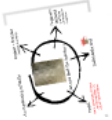
4 5 6

7 8

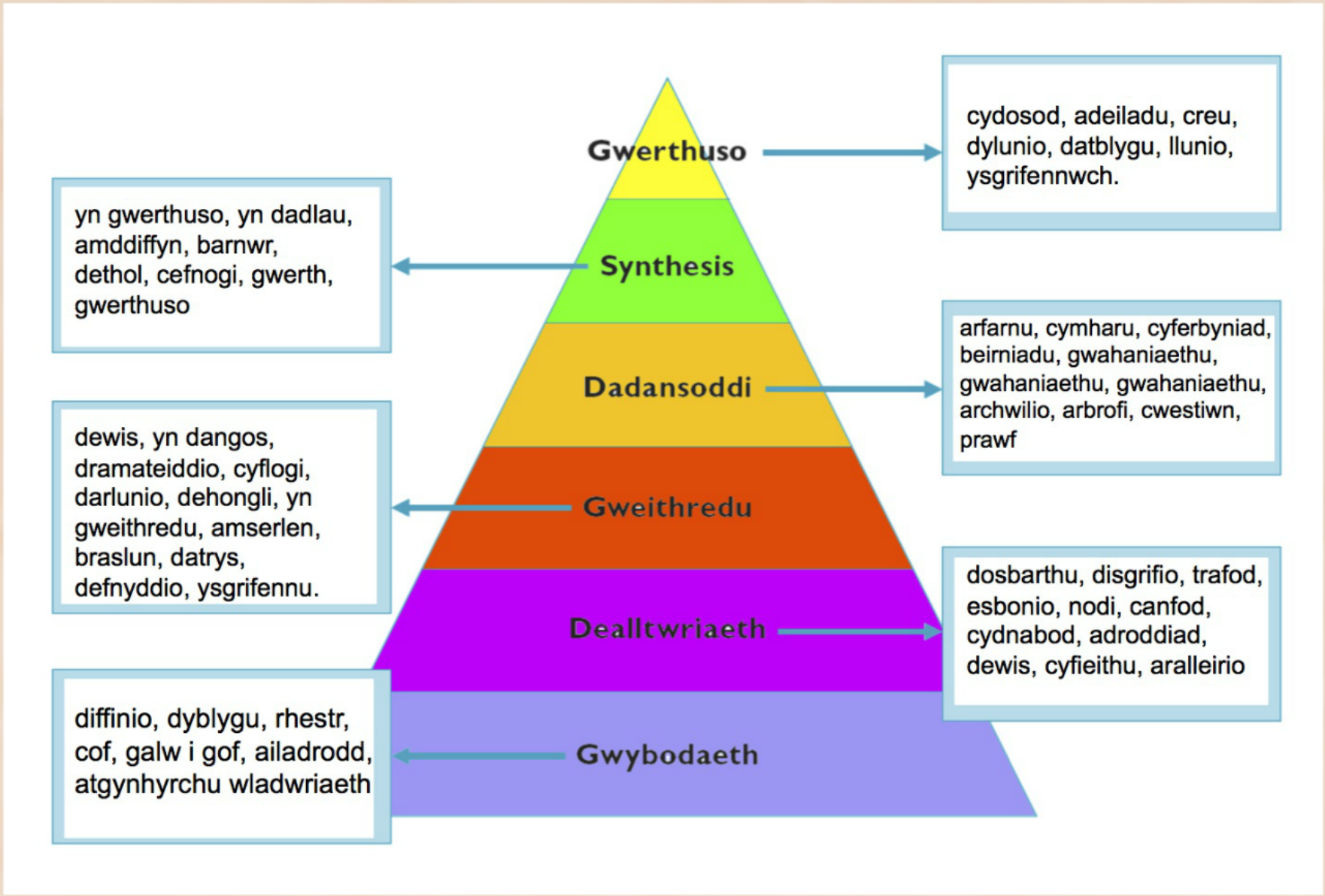
9 Lowest

What are your nine top strategies?









Adolygiad Tacsonomeg Bloom

Grab a set of thinking dice...start with LOT dice and ask a friend questions about our session on questioning...can they answer your HOT questions?



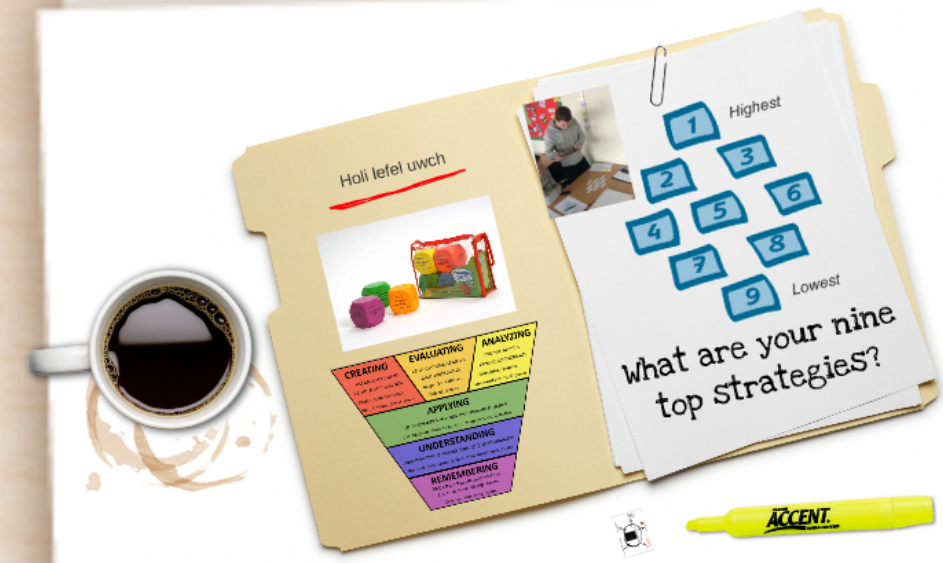
Cyfeiriadau a darllen pellach

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Kerry, T. (1982) Effective questioning, London: Macmillan.

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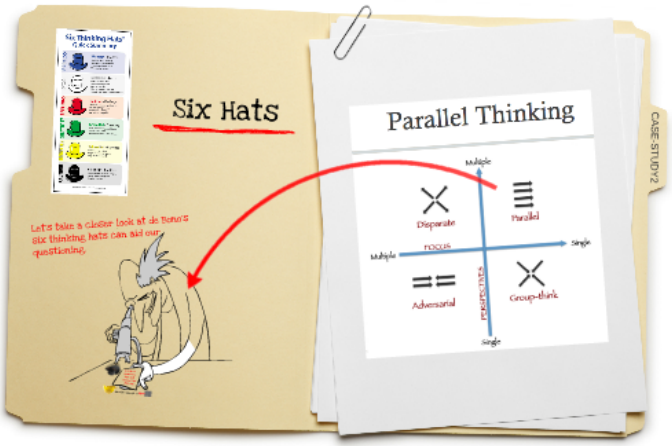
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ReSearch on the Solution room for 4 key Slides

PRIFYSGOL CYMRU
Y Drindod Dewi Sant
UNIVERSITY OF WALES
Trinity Saint David

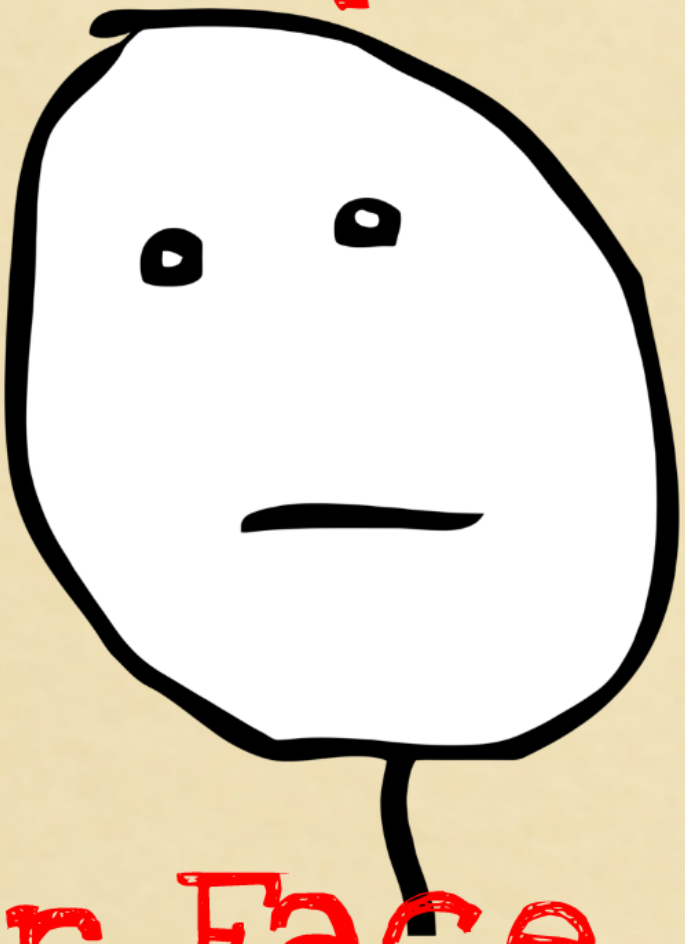
Er...um...beth oedd y cwestiwn eto?



Canolfan Addysg Athrawon De-Orllewin Cymru
The South West Wales Centre of Teacher Education

Gwyneb pocer





Poker Face