

ECAD4010C Astudiaethau Proffesiynol ac Addysgeg:

Ymchwilio i'r Dysgu: beth, sut a pham rydw i'n addysgu?

Sesiwn 2:

Datblygu safiad critigol a sgeptigol
mewn perthynas ag addysgeg

Nodau'r Sesiwn/Session Aims



- Bod yn ymwybodol o rai o'r gyrwyr gwleidyddol, economaidd a chymdeithasol ar gyfer 'tystiolaeth', ynghyd â goblygiadau'r rhain
- To be aware of some political, economic and social drivers for, and implications of, 'evidence'
- Dechrau datblygu agwedd sgeptigol tuag at wybodaeth
- To begin to develop a skeptical approach to information

Agweddau Ymchwil Yr Athrofa

Bod yn sgeptigol

- Deall **tystiolaeth empirig** mewn meysydd a amheuir
- Bod yn ymwybodol o yrwyr gwleidyddol, economaidd a chymdeithasol ar gyfer 'tystiolaeth'

Bod yn foesegol

- Gwybod a defnyddio egwyddorion moesegol ymchwil
- Deall **ymagweddu (positionality)**

Bod yn ymchwilydd crefftus

- Deall dulliau **ansoddol** a **meintiol**
- Gallu llunio dadl yn seiliedig ar dystiolaeth
- Defnyddio sgiliau **darllen beirniadol**

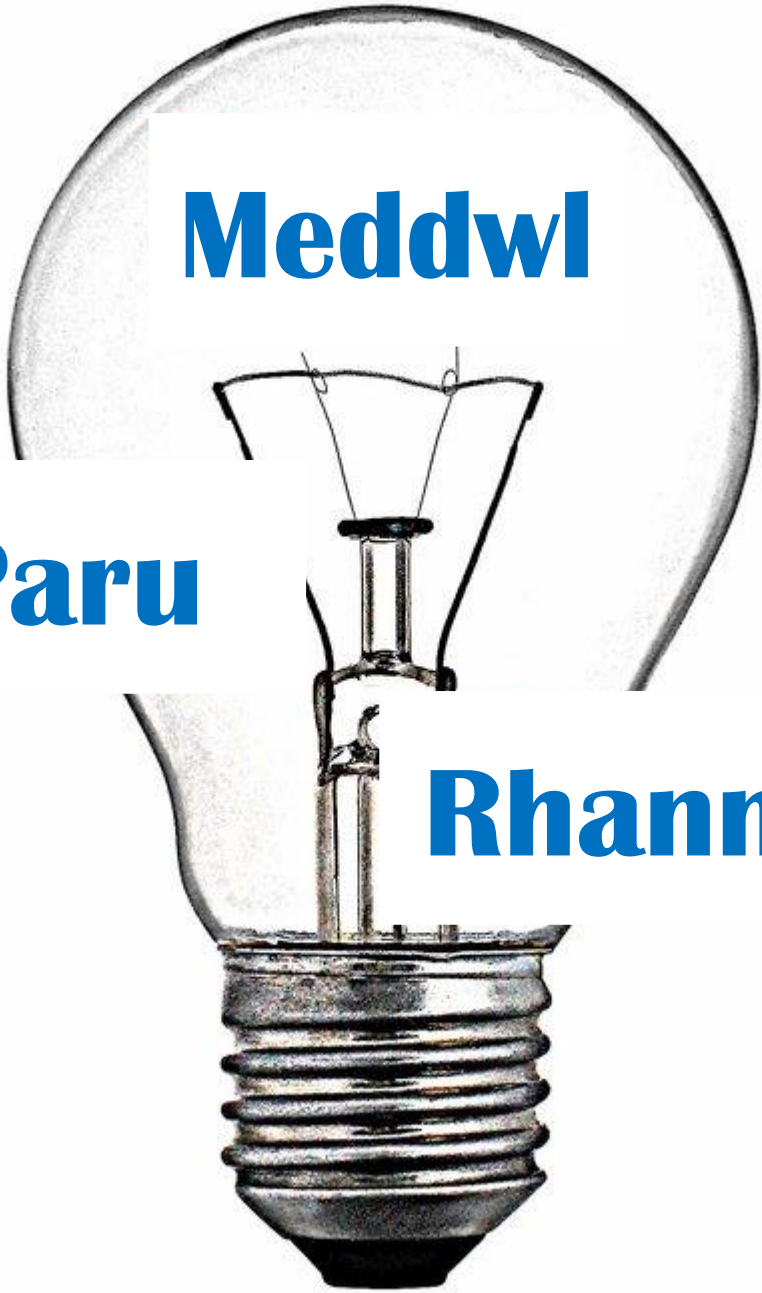
Bod yn rhan o broffesiwn ymholgar

- Cyfrannu'n rhagweithiol at ystod o gynulleidfaoedd
- Cymryd rhan weithredol mewn ymholiadau a chanfyddiadau pob eraill

Tasg

Diffiniwch y termau canlynol. Sut y gallant effeithio ar ymchwil addysgol:

- Tuedd
- Ystrydeb
- Tybiaeth
- Cred



Meddwl

Paru

Rhannu

Tystiolaeth ar gyfer tuedd athrawon/Evidence for teacher bias

Diffinia **Robert Rosenthal y Pygmalion effect** fel: “the phenomenon whereby one person's expectation for another person's behavior comes to serve as a self-fulfilling prophecy” (American Psychologist, 2003: 839)

Professor Robert Rosenthal



Gwyliwch y clip YouTube

I ba raddau y gall dibynnu ar ymchwil camarweiniol effeithio ar yr athro a'r disgybl yn y dosbarth?

Sut y gellir lleihau tuedd athrawon?

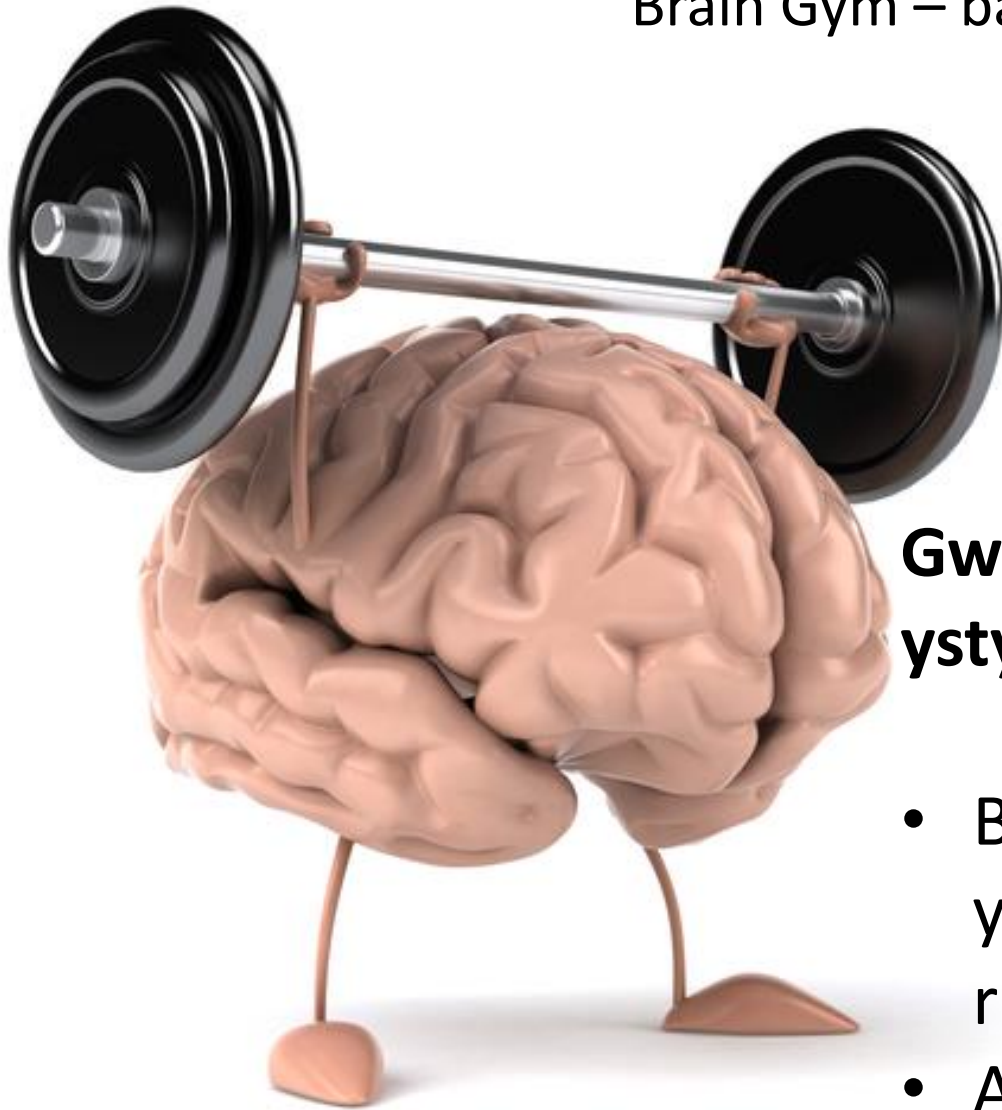


Cael gwared ar duedd athrawon mewn ymchwil ...

Sut gallwch fod yn siŵr y seilir yr hyn rydych yn ei ddarllen ar ddata yn hytrach na barn yn unig?

- Darllenwch ymchwil o ffynonellau credadwy (ee: cylchgronau a ddyfernir; prif brosiectau ymchwil);
- Pan nodir bod “ymchwil yn dangos bod ...”, chwiliwch am ffynhonnell gredadwy;
- Chwiliwch am dystiolaeth i gefnogi honiadau a chymerwch safiad critigol tuag ati;
- A yw’r ymchwil yn cydnabod ei gyfyngiadau ei hun?
- Pan fydd modd i’r ffynhonnell elwa (ee: gwerthu pecyn i chi), byddwch yn arbennig o sgeptigol;
- Chwiliwch am wrth-ddadleuon, peidiwch â dewis tystiolaeth gefnogol yn unig;

Campfa'r Ymennydd – wedi'i seilio ar dystiolaeth ddibynadwy?
Brain Gym – based on reliable evidence?



BBC
newsnight

**Gwyliwch y clip gan BBC Newsnight ac
ystyriwch y canlynol:**

- Beth yw manteision campfa'r ymennydd fel y'u mynegir gan yr athrawon a'r disgyblion yn rhan gyntaf y ffilm?
- Ar beth y seilir syniad campfa'r ymennydd?

Learning Styles Overview



Visual

Learn through seeing

- See the teacher
- Sit in front of classroom
- Think in pictures
- Learn best from visual displays



Auditory

Learn through listening

- Verbal lessons
- Discussions
- Listening to others
- Interprets meaning by listening
- May read aloud



Kinesthetic

Learn through moving, doing & touching

- Hands on approach
- Hard time sitting still
- Rather demonstrate than explain
- Prefers group work

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VISUAL



AURAL (AUDIO)



READ/WRITE



KINESTHETIC

The VARK Questionnaire for Younger People



You have a problem with your knee. Would you prefer that the doctor:

- ☐ showed you a diagram of what was wrong.
- ☐ gave you an article or brochure that explained knee injuries.
- ☐ demonstrated what was wrong using a model of a knee.
- ☐ described to you what was wrong.

A new movie has arrived in town. What would most influence your decision to go (or not go)?

- ☐ you read what others say about it online or in a magazine.
- ☐ you see a preview of it.
- ☐ hear friends talking about it.
- ☐ it is similar to others you have liked.

You are about to buy a new digital camera or mobile phone. Other than price, what would most influence your decision?

- ☐ it is the latest design and looks good.
- ☐ trying it.
- ☐ reading the details about its features.
- ☐ the salesperson telling me about it.

The VARK Questionnaire for Younger People



A website has a video showing how to make a special graph. There is a person speaking, some lists and words describing what to do and some diagrams. You would learn most from:

- ☐ listening.
- ☐ reading the words.
- ☐ watching the actions.
- ☐ seeing the diagrams.

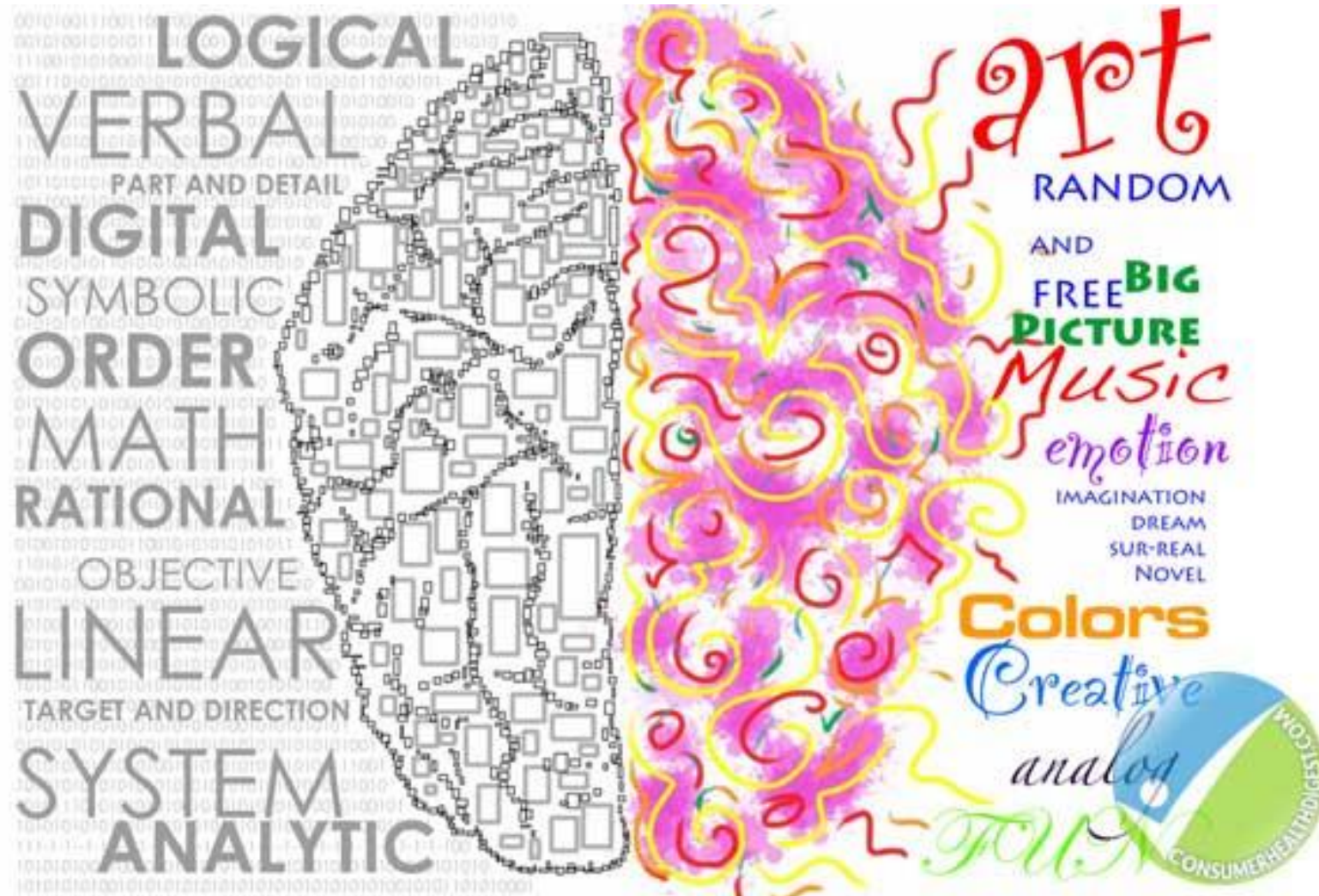
You want some feedback about an event, competition or test. You would like to have feedback:

- ☐ from somebody who discussed it with me.
- ☐ that used examples of what I have done
- ☐ that used graphs showing what I achieved.
- ☐ that used a written description or table of my results.

You are about to hook up your parent's new computer. You would:

- ☐ unpack the box and start putting the pieces together.
- ☐ phone, text or email a friend and ask how to do it.
- ☐ read the instructions that came with it.
- ☐ follow the diagrams that show how it is done.

A yw'ch ymennydd yn gryfach ar y chwith neu'r dde?





Ond...
Does dim
tystiolaeth
wyddonol.

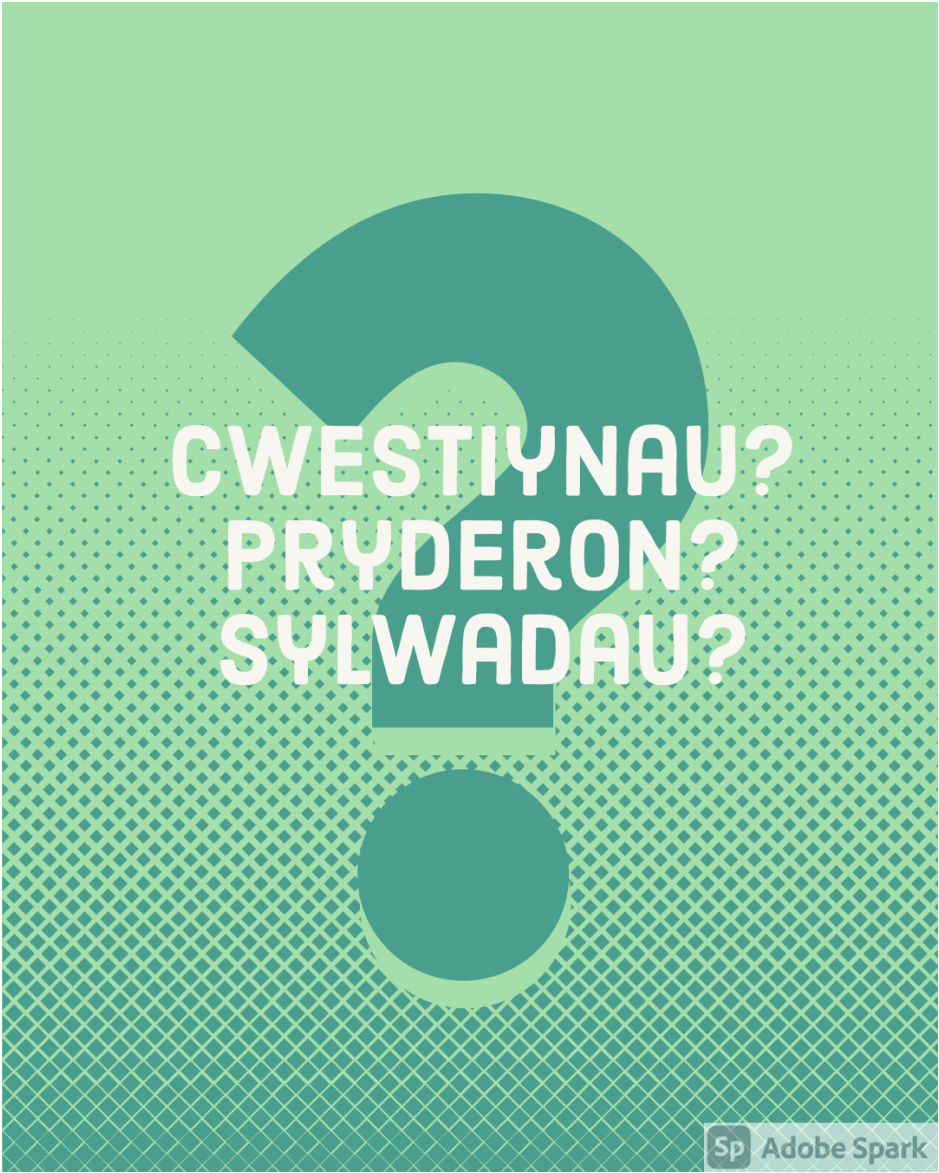


Tasg Gyfeiriol 2

Rydych yn cyflwyno cyflwyniad ffurfiol mewn ysgolion am yr hyn a ddysgoch yn sesiynau 1 a 2.

Cyflwynwch **100 o eiriau** i'r Blog ar y dudalen Moodle yn amlinellu'r prif bwyntiau yr hoffech eu cynnwys yn y cyflwyniad.





**CWESTIYNAU?
PRYDERON?
SYLWADAU?**