

# ECAD5010 Researching the learning: what, how and why am I teaching?



# Yr Athrofa

Addysg a'r Dyniaethau  
Education and Humanities



# Yn y sesiwn yma byddwn yn edrych ar: In this session we will look at:

- Cwestiynau ymchwil
- Holiaduron
- Bod yn foesebol wrth ddefnyddio holiaduron
- Research questions
- Questionnaires
- Being ethical when using questionnaires



# Nodweddion Ymchwil

## Research Dispositions

Bod yn ymchwilydd  
medrus

Being a skilled researcher

Bod yn sgeptigol

Being sceptical

Bod yn foeseinol

Being ethical

Being part of an  
inquiring profession

Bod yn rhan o  
broffesiwn ymholgar



# Cwestiynau ymchwil a'u pwrpas

## Research questions & purpose

- Pam ymchwilio?
- Sut ydym am wneud yr ymchwil?
- Why research?
- How are you going to conduct your research?

- ANSODDOL
- MEINTIOL

- QUALITATIVE
- QUANTITATIVE



# Pam data ansoddol a meintiol?

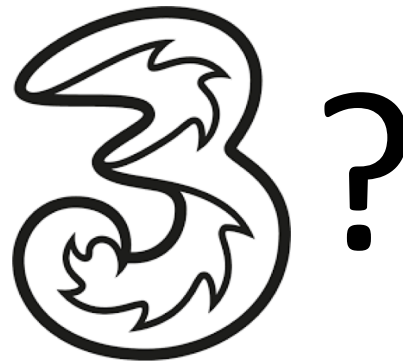
## Why qualitative & quantitative data?

- Bruner (1986) – *dwylffordd o wybod* (gwyddonol a naratif)
- Dull gwyddonol o ganfod y 'gwir' – data, meintiol)
- Ffyrdd naratif o ganfod y gwir, 'syniad o'r gwir' – ansawdd a ddisgrifir mewn geiriau, lluniau neu seiniau.
- Bruner (1986) – *two ways of knowing* (scientific and narrative)
- Scientific ways of seeking 'truth' – quantitative data.
- Narrative ways of seeing the world, 'truth-likeness' – qualities described in words, pictures or sounds.



# Offer Ymchwilio Research Tools

- Holiaduron
- Cyfweliadau
- Arsylwadau
- Questionnaire
- Interviews
- Observations



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# Holiaduron Questionnaires

- Ysgrifennu holiaduron - proses syml?
- Designing a questionnaire – a straightforward process?

*'fiendishly difficult to design'... 'discipline in the selection of questions, in question writing, in the design, piloting, distribution and return of questionnaires'*

(Bell, 2010, p.140)



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# Enghreifftiau o gwestiynau mewn holiadur

## Types of questions found in a questionnaire

- Caeëdig
- Cwestiynau ystod
- Cwestiynau aml-ddewis
- Graddio
- Dewisol
- Graddfa Likert
- Rhannol-strwythuredig
- Anstrwythuredig

- Closed
- Range questions
- Multiple choice questions
- Ranking
- Select
- Likert scale
- Semi-structured
- Unstructured



# Enghraifft o holiadur

## An example of a questionnaire

- A ydych yn gallu adnabod enghreifftiau o gwestiynau ...
- Can you spot examples of ... questions?



<https://www.wikihow.com/images/thumb/3/38/Make-a-Questionnaire-Step-1-Version-7.jpg/aid1107819-v4-728px-Make-a-Questionnaire-Step-1-Version-7.jpg.webp>

# Bod yn foesebol wrth ymchwilio

## Being ethical in research led practice

- Cwestiynau sensitif
- Trefn y cwestiynau
- Caniatâd
- Cyfrinachedd
- Rheoli data
- Sensitive questions
- Sequence the questions
- Consent
- Confidentiality
- Data management



# Manteision Anfanteision

- Beth yw manteision ac anfanteision defnyddio holiadur fel dull o ymchwilio?

# Advantages Disadvantages

- What are the advantages and disadvantages of using a questionnaire as a research tool?



[https://positivepsychology.com/wp-content/uploads/1\\_strength-finding-exercises-300x150.jpg](https://positivepsychology.com/wp-content/uploads/1_strength-finding-exercises-300x150.jpg)



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# Crynodeb / Summary

- Beth ydych wedi ei ddysgu heddiw?
- What have you learnt today?



<https://study.com/cimages/videopreview/videopreview-full/608ps37mcu.jpg>

# Tasg gyfeiriedig 2 – Directed task 2

- Edrychwch ar bob un dolen gyswllt ar:/Explore all links on: Observation: a guide for use:

<https://education.nsw.gov.au/teaching-and-learning/professional-learning/evaluation-resource-hub/collecting-data/observation>



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# References Cyfeirnodau

British Educational Research Guidelines (BERA, 2018).

<https://www.bera.ac.uk/researchers-resources/publications/ethical-guidelines-for-educational-research-2018>

Cohen, L., Manion, L. and Morrison, K. (2013) *Research Methods in Education*. London: Sage Publications Ltd. (Copy available on Moodle) rme-edu-helpline-blogspot-com.



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