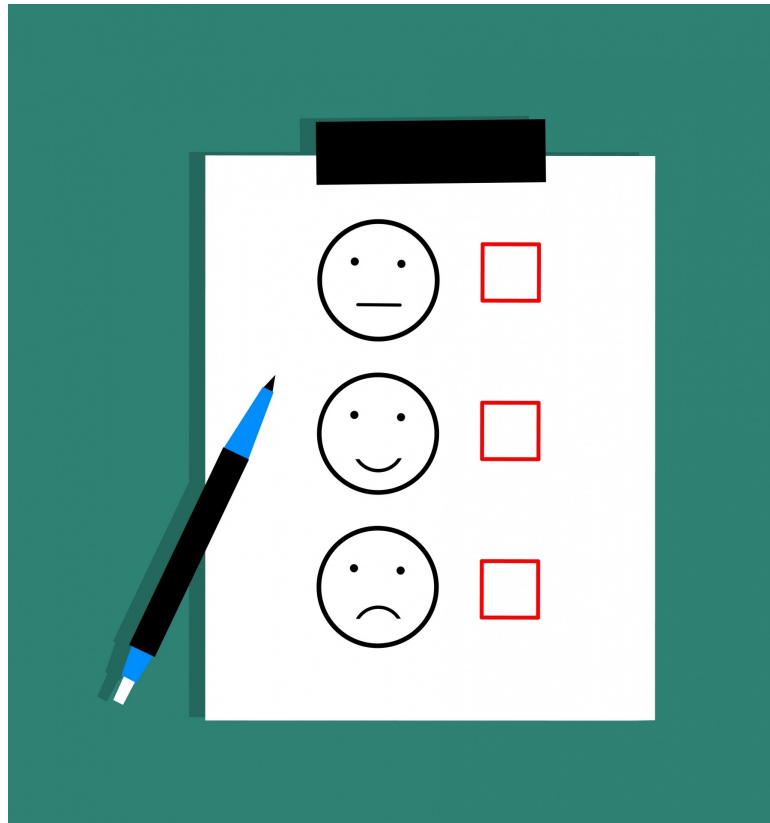


ECAD5010C Ymchwilio i'r Dysgu: beth, sut a pham ydw i'n addysgu?

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



Sesiwn - Session 5



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



Bod yn ymchwilydd medrus - Being a skilled researcher

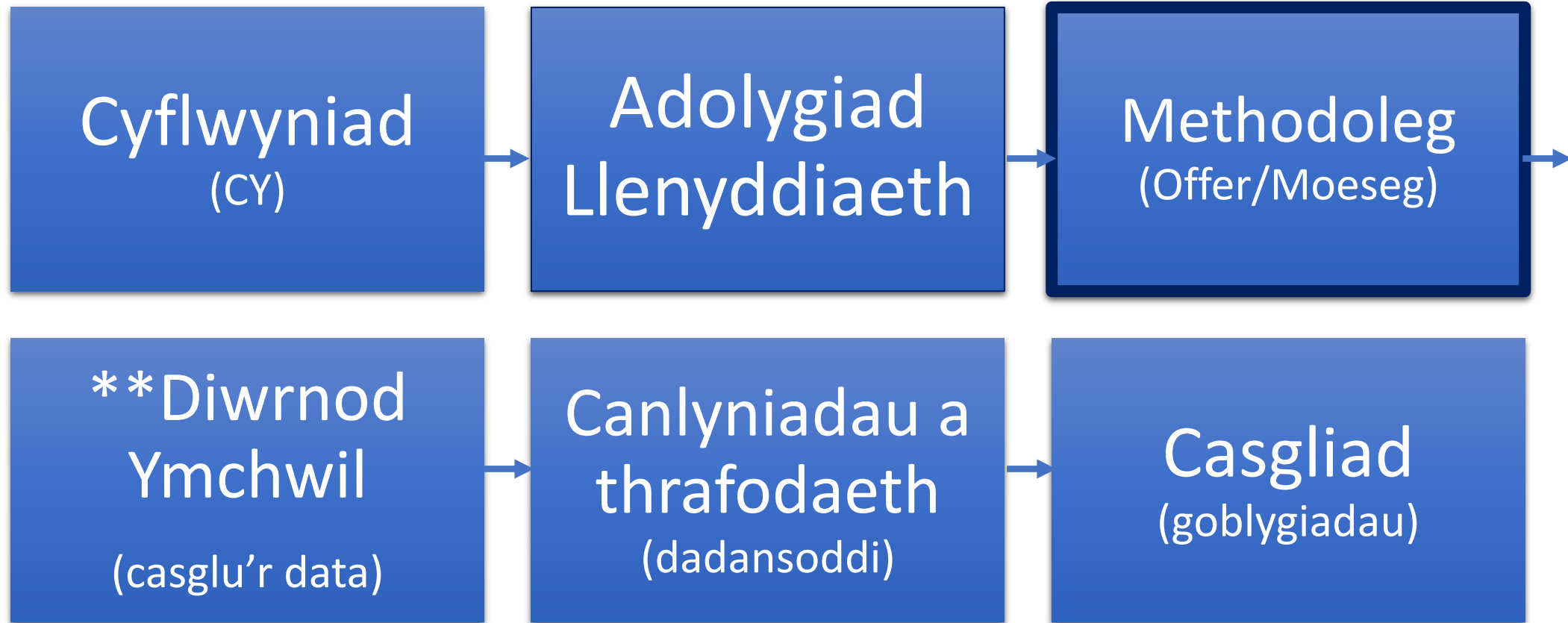


Offer ymchwil – Holiaduron Research tools – Questionnaires

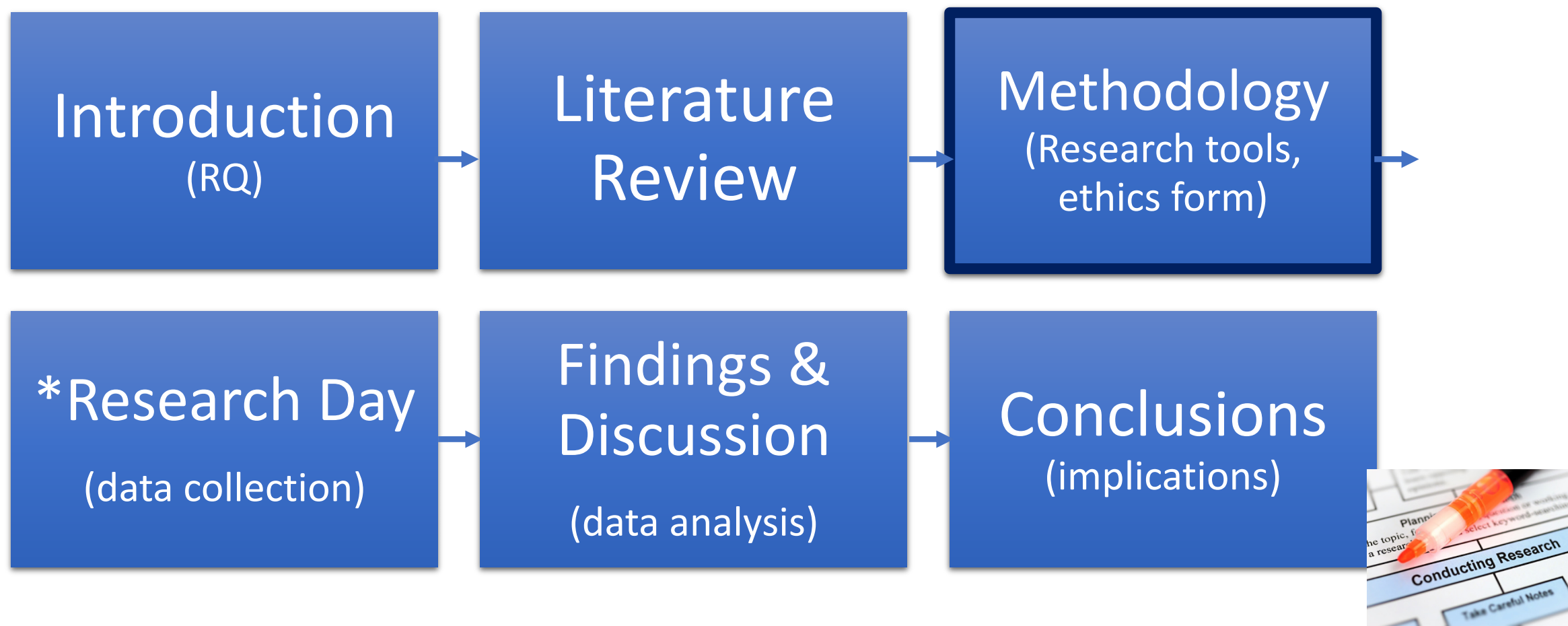


Moeseg ac holiaduron - Being ethical when using questionnaires

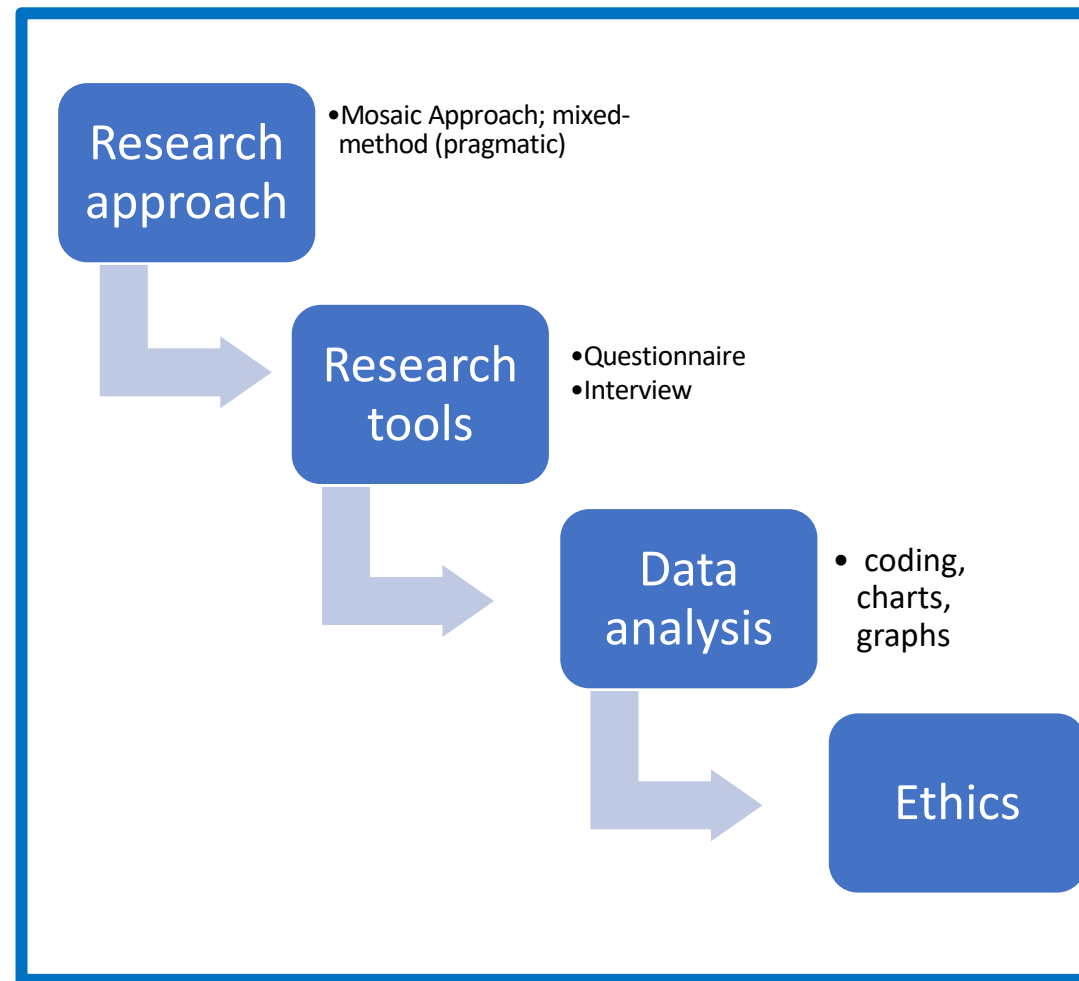
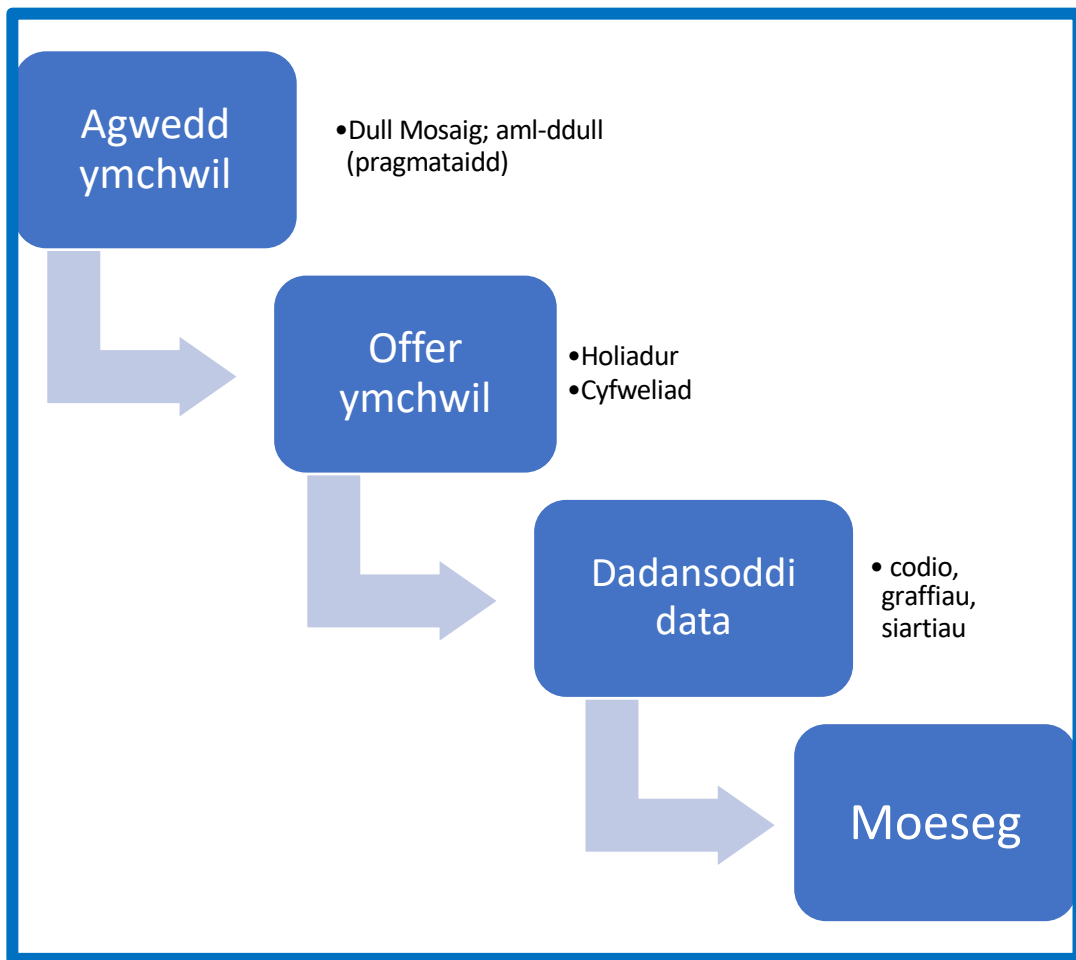
Dylunio a chynnal astudiaeth ymchwil



Design & Conduct a Small-Scale Research Study...



Methodoleg - Methodology



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



Offer Ymchwilio Research Tools

- Cyfweiliadau
- Holiaduron



- Interviews
- Questionnaire



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'

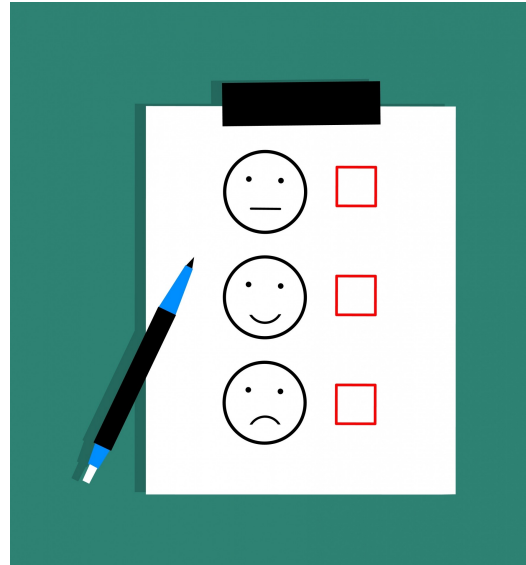
(Bell, 2010, p.140)



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?



- Microsoft Forms
- <https://support.office.com/en-us/article/create-a-quiz-with-microsoft-forms-a082a018-24a1-48c1-b176-4b3616cdc83d>
- Step by Step how to use Microsoft Forms
- <https://www.youtube.com/watch?v=ouFKWHQMxtQ>



Testing the questionnaire: PILOT STUDY



- *“A pilot has several functions, principally to increase the reliability, validity and practicability of the questionnaire” (Cohen & Manion, 2013, p.341)*
- Helps to check the clarity of the questionnaire
- Gives you feedback on the validity of the questionnaire
- Helps you eliminate ambiguities
- Gives feedback on the type of questions you have used
- Gives you feedback on any omissions.



Rhoi'r holiadur ar brawf: ASTUDIAETH BEILOT



- *“A pilot has several functions, principally to increase the reliability, validity and practicability of the questionnaire” (Cohen & Manion, 2013, t.341)*
- Mae'n helpu gwirio eglurder (clarity) yr holiadur
- Mae'n rhoi adborth i chi ar ddilysrwydd (validity) yr holiadur
- Mae'n eich helpu i ddileu unrhyw bethau amwys (ambiguities)
- Mae'n rhoi adborth i chi ar y math o gwestiynau rydych chi wedi'u defnyddio.
- Mae'n rhoi adborth i chi ar unrhyw bethau sydd wedi'u hepgor.

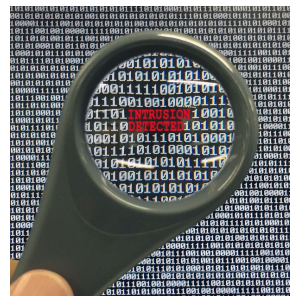


Bod yn foeseinol wrth ymchwilio

Being ethical in research led practice

*“The questionnaire will always be an intrusion into the life of the **respondent**”* (Cohen & Manion, 2013, p.260)

- Allwch chi feddwl pam?



- Can you think why?

Bod yn foeseinol wrth ymchwilio

Being ethical in research led practice

Cwestiynau sensitif

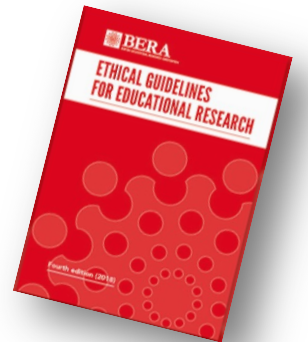
Trefn y cwestiynau

Caniatâd

Cyfrinachedd

Rheoli data

- Sensitive questions
- Sequence the questions
- Consent
- Confidentiality
- Data management



Materion moesegol:

Pwyntiau allweddol

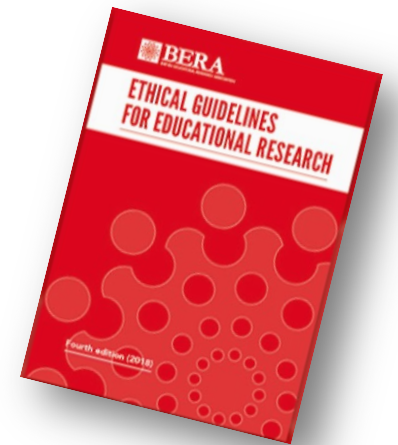
Atebwyr holiaduron yw **goddrych** yr ymchwil ac nid y gwrthrych

Allwch chi ddim **gorfodi** atebwyr i gwblhau'r holiadur

Mae gan bob atebwr **yr hawl i dynnu'n ôl** unrhyw bryd neu i beidio â chwblhau pob rhan o'r holiadur

Bydd angen i chi sicrhau **caniatâd gwybodus**

Bydd angen i chi sicrhau **cyfrinachedd, anhysbysrwydd ac nad oes modd eu holrhain.**



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



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Ethical issues: key points

Questionnaire respondents are the **subjects** and not **objects** of research

You cannot **coerce** respondents into completing a questionnaire

All respondents have the **right to withdraw** at any stage or not complete all parts of the questionnaire

You will need to obtain **informed consent**

You will need to guarantee **confidentiality, anonymity, and non-traceability.**

ETHICS

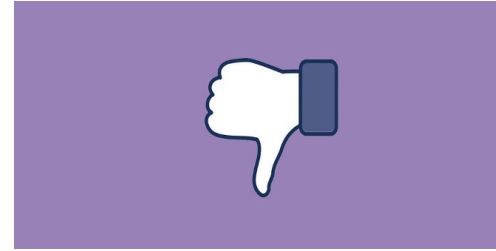


<https://www.bera.ac.uk/publication/ethical-guidelines-for-educational-research-2018>

Manteision/ Cryfderau Anfanteision/Cyfyngiadau

Strengths/Advantages Limitations/Disadvantages

- Beth yw manteision/ cryfderau ac anfanteision/heriau defnyddio **holiadur** fel dull o ymchwilio?



https://positivepsychology.com/wp-content/uploads/1_strength-finding-exercises-300x150.jpg

- What are the advantages/ strengths and disadvantages/ limitations of using a **questionnaire** as a research tool?



Tasg Unigol – Individual Task

- Ysgrifennwch rhai brawddegau yn trafod manteision a chyfyngiadau **holiadur** fel offeryn ymchwil.
- Cofiwch gefnogi eich sylwadau gyda llenyddiaeth.



- cyfiawnhau a gwerthuso'r offer ymchwilio a ddefnyddiwyd gennych, e.e. *cyfweliad, holiaduron*

- Write a few sentences discussing the strengths and limitations of questionnaire as a research tool.
- Remember to support your points with literature.

- justify and evaluate the research tools you used, e.g., *interview, questionnaire*

Tasg Gyfeiriedig 3 - Directed Task 3

- Cwblhau ysgrifennu am ‘**Offer ymchwil**’ – Adran ‘**Methodoleg**’ o’r Aseiniad.
- Cofiwch gefnogi eich sylwadau gyda llenyddiaeth.
- Complete writing up the ‘**Research Tools**’ – **Methodology** section of the assignment.
- Remember to support your claims with literature.

Er enghraifft / For example:

Denscombe, M. (2014) *Good Research Guide*. 5th edition. Maidenhead: Open University Press (Chapter 12*) (Copi ar gael/Copy available – Moodle*)



References Cyfeirnodau

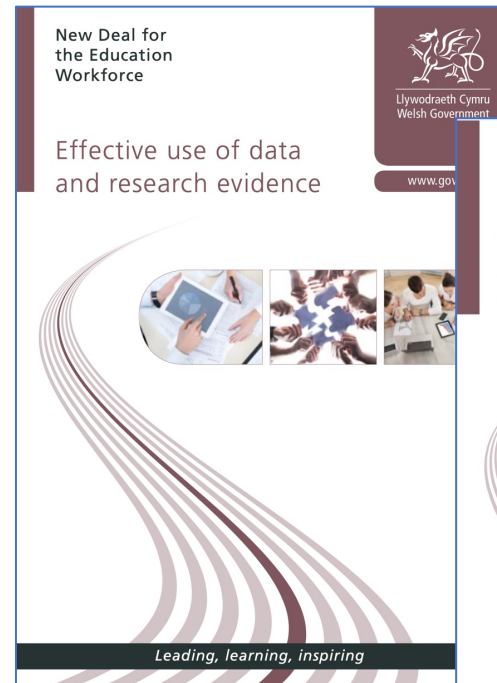
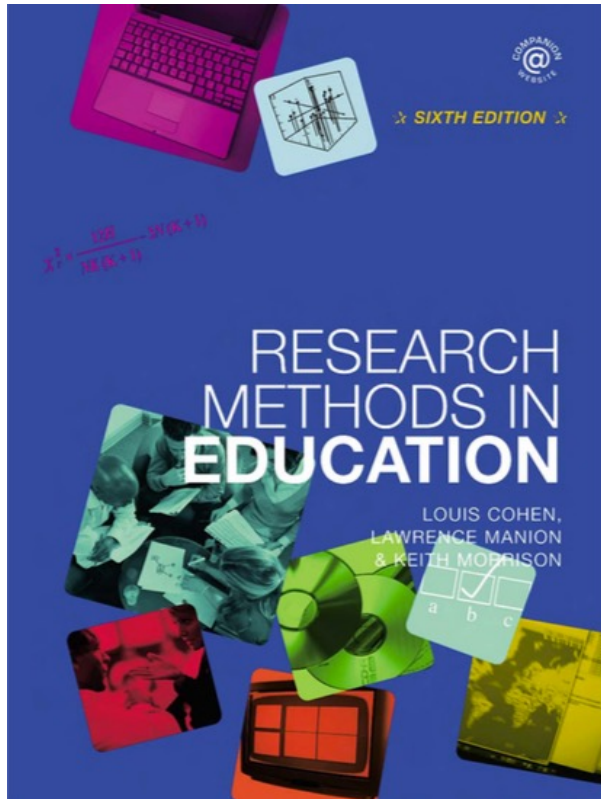
Bell, J. (2010) *Doing your Research Project*. 5th edition. Maidenhead: Open University Press.
<https://handoutset.com/wp-content/uploads/2022/07/Doing-Your-Research-Project-Judith-Bell.pdf>
(Copy available on Moodle)

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.

Denscombe, M. (2014) *Good Research Guide*. 5th edition. Maidenhead: Open University Press (Chapter 11)
(Copy available on Moodle)

Cyfeiriadau Defnyddiol – Useful References



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MOODLE**

