

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 3



Prifysgol Cymru
Y Drindod Dewi Sant
University of Wales
Trinity Saint David

Yr Athrofa
Centre for Education
Addysg i Gymru | Education for Wales

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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



Agwedd Mosaig – The Mosaic Approach



Dyluniad ymchwil – Research design



Yr Athrofa Research Dispositions

Being sceptical

- Understand **empirical evidence** in contested fields
- Being aware of political, economic and social drivers for 'evidence'

Being ethical

- Knowing and using **ethical principles** of research
- Understanding **positionality**

Being a skilled researcher

- Understanding **qualitative** and **quantitative** methods
- Be able to **construct an argument** based on **evidence**
- Employing **critical reading** skills

Being part of an inquiring profession

- Proactively contributing to a range of audiences
- **Actively engaging with the inquiry** and findings of others

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 **safleoldeb (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 pobl eraill

ECAD5010 – Module OUTCOMES

Upon the successful completion of this module, the student-teacher should be able to demonstrate the ability to:

Develop increasing knowledge and skill in selecting and using a range of research tools to generate data and evidence which can inform personal practice

Justify the application of research tools in the classroom to gain insight into an aspect of teaching and learning

Develop the disposition of being a skilled researcher through careful analysis and evaluation of data and relate this to personal practice

Show an increased understanding that education is a contested terrain and that different perspectives can co-exist in research

Secure the dispositions of being an ethical researcher by identifying ethical practice in the complex learning environment of the classroom.



ECAD5010C – Deilliannau Dysgu'r Modwl

Ar ôl cwblhau'r modwl hwn yn llwyddiannus, dylai'r darpar athrawon allu dangos y gallu i:

Datblygu gwybodaeth a sgiliau cynyddol wrth ddewis a defnyddio ystod o offer ymchwil i gynhyrchu data a thystiolaeth a all lywio arfer personol

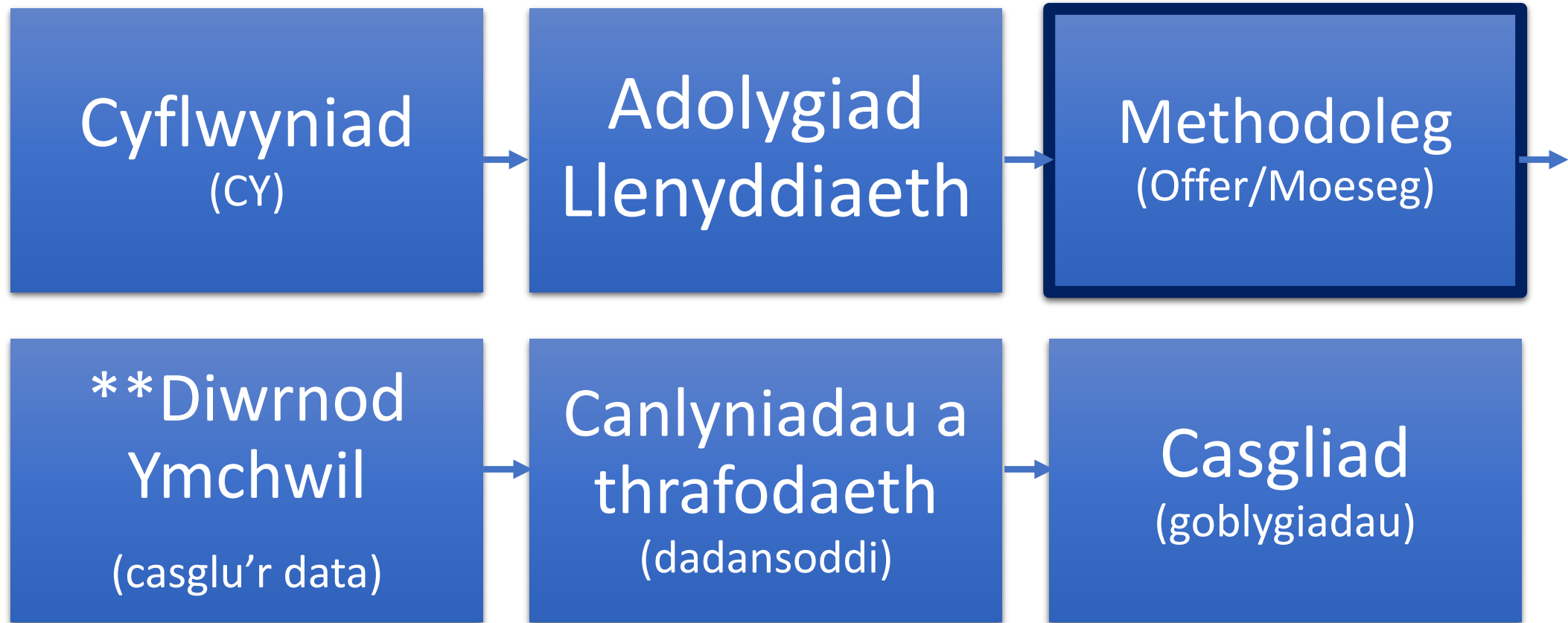
Cyfiawnhau cymhwyso offer ymchwil yn yr ystafell ddosbarth i gael dirnadaeth o agwedd ar ddysgu ac addysgu

Datblygu'r nodwedd o fod yn ymchwilydd medrus trwy ddadansoddi a gwerthuso data'n ofalus a chysylltu hyn ag arfer personol

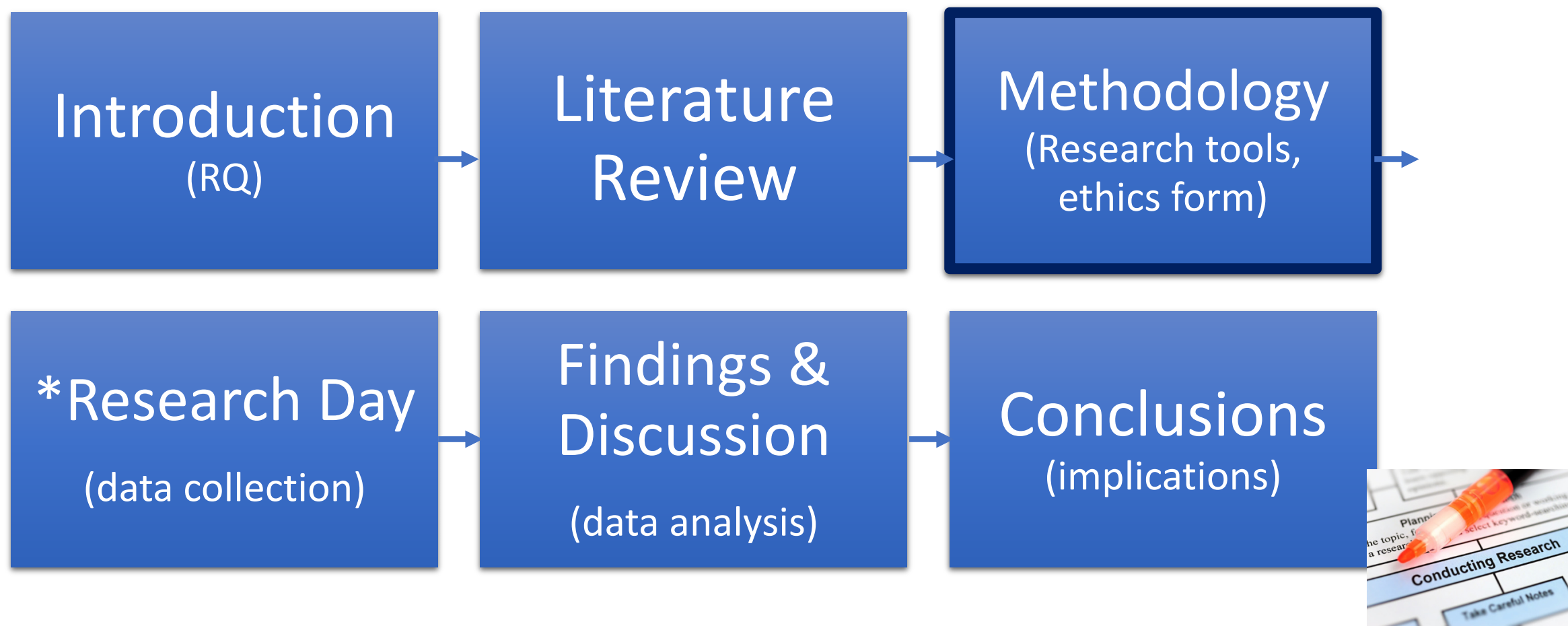
Dangos dealltwriaeth gynyddol fod addysg yn faes dadleuol ac y gall gwahanol berspectifau gydfodoli mewn ymchwil

Sirchau nodweddion bod yn ymchwilydd moesegol trwy adnabod arfer moesegol yn amgylchedd dysgu cymhleth yr ystafell ddosbarth.

Dylunio a chynnal astudiaeth ymchwil



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



Cwestiynau ymchwil a'u pwrpas

Research questions & purpose

- PAM ymchwilio?
- SUT ydym am gasglu'r data?

- ANSODDOL
- MEINTIOL

- WHY research?
- HOW are you going to collect your data?

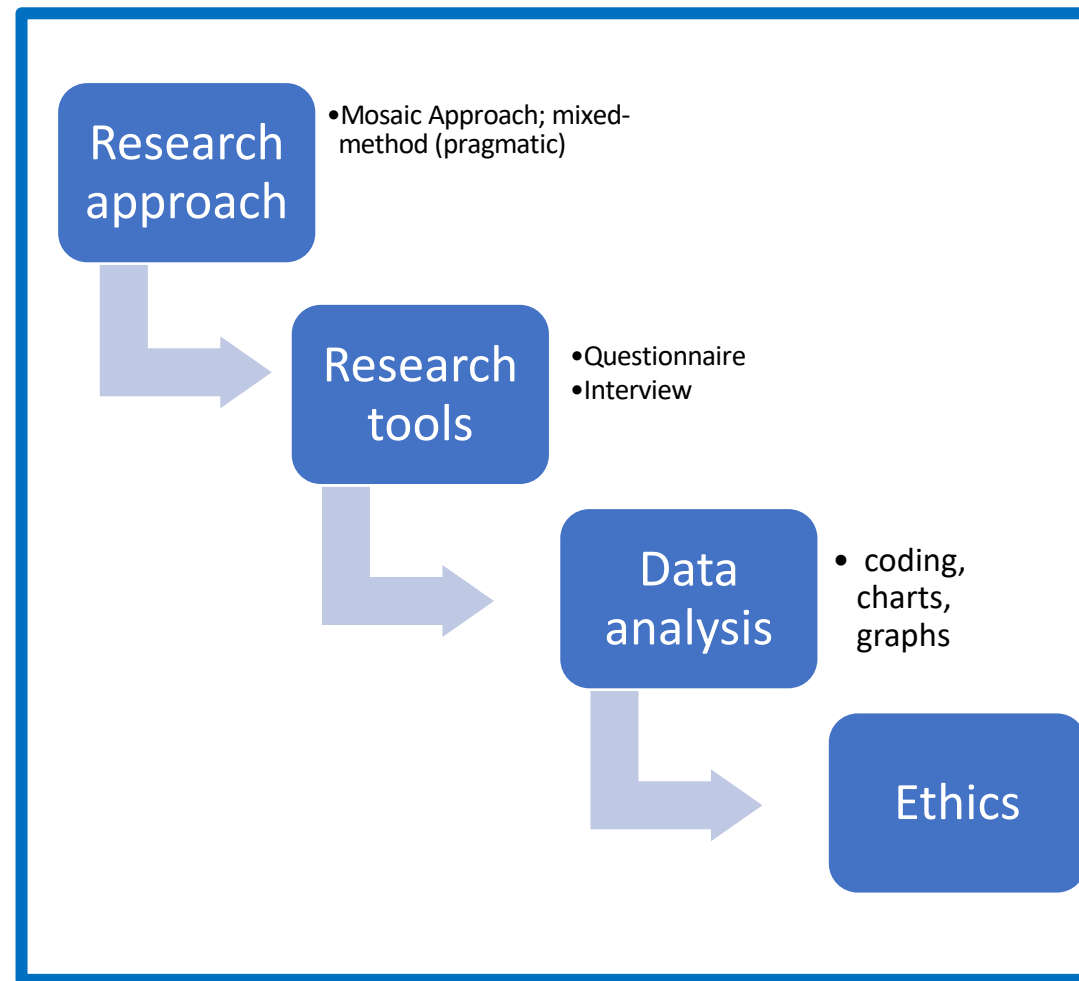
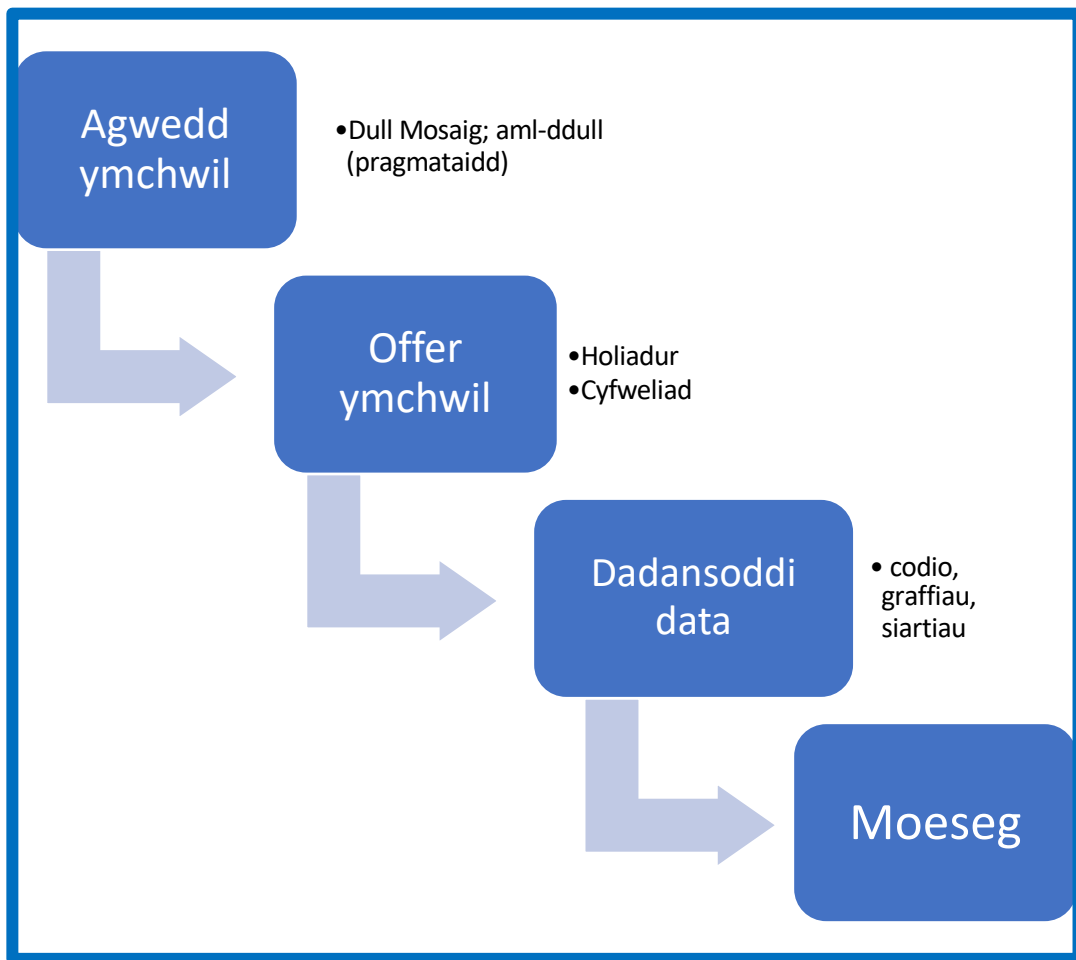
- QUALITATIVE
- QUANTITATIVE

Pam data ansoddol a meintiol?

Why qualitative & quantitative data?

- Bruner (1986) – *dwyl ffordd 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.

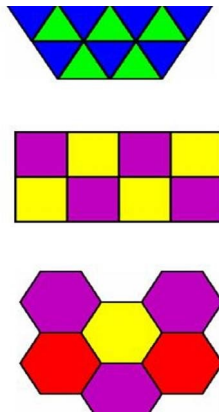
Methodoleg - Methodology



Bod yn ymchwiliwr medrus

Being a skilled researcher

- Defnyddio'r Ymagwedd Mosaig ar gyfer gwrando ar leisiau a phrofiadau'r dysgwyr



- Using the Mosaic Approach for hearing pupils' voices and experiences

Yr Ymagwedd 'Mosaic'- damcaniaeth

The Mosaic Approach - theory

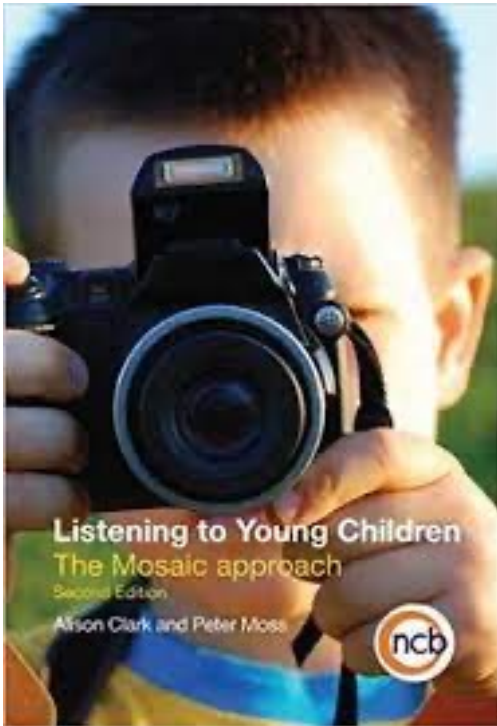
Darllen/Read:

- Ways of seeing: using the Mosaic approach to listen to young children's perspectives - Alison Clark (pp.11-16) ([tt.11-16](#))



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Enghreifftiau - Examples



Mosaic Approach: Methods to be used by the children

- Observation
- Cameras
- Book making
- Tours
- Map making



(Clark and Moss, 2001).

Principles

Professional, positive relationships are needed throughout the research

Research procedures should be less constrained during data collection

Children have noteworthy views, ideas and emotions and are worth listening to

Research should be beneficial to children and educators

Astudiaethau Achos – Case-studies



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Tasg Unigol - Individual Task

- Ysgrifennwch rhai brawddegau yn diffinio a chyfiawnhau eich agwedd ymchwilio (Agwedd Mosaig ac holiadur)



Methodoleg

Yn yr adran hon dylech amlinellu eich dyluniad a'ch methodoleg ymchwil, a gwerthuso'n feirniadol yr offer ymchwil o'ch dewis. Dylech hefyd ddangos eich dealltwriaeth o faterion moesegol wrth gynnal gwaith ymchwil. Felly, yn yr adran dylech:

- amlinellu eich dyluniad ymchwil a'ch methodoleg, h.y. esboniwch pa fethodoleg ac offer ymchwilio y gwnaethoch chi eu defnyddio er mwyn ateb eich cwestiwn ymchwil, e.e. agwedd pragmataidd (dull cymysg) - *Agwedd Mosaig*
- cyfiawnhau a gwerthuso'r offer ymchwilio a ddefnyddiwyd gennych, e.e. *cyfweliad, holiaduron*

- Write a few sentences to define and justify your research approach (Mosaic approach and questionnaire)

Methodology

In this section you should outline your research design and methodology, and critically evaluate your chosen research tools. You should also demonstrate your understanding of ethical issues when conducting research work. Therefore, in the section you should:

- outline your research design and methodology, e.g., *used a pragmatic approach (mixed method)* - *Mosaic Approach*



Cyfeirnodau - References

- Clark, A. (2005) 'Ways of seeing: using the Mosaic approach to listen to young children's perspectives', in Clark, A., Kjørholt and Moss, P. (eds.) *Beyond Listening*. Children's perspectives on early childhood services. Bristol: Policy Press, pp. 29–49.
- Ponizovsky-Bergelson, Y., Dayan, T., Wahle, N. & Roer-Strier, D. (2019) 'A Qualitative Interview With Young Children: What Encourages or Inhibits Young Children's Participation?' *International Journal of Qualitative Methods*, 18, pp1-9.
<https://journals.sagepub.com/doi/full/10.1177/1609406919840516>

Tasg Gyfeiriedig 2 Directed Task 2

- Read/ Darllenwch:

Danby, S.J., Ewing, L., & Thorpe, K.J. (2011) The novice researcher: interviewing young children. *Qualitative Enquiry*, 17(1), pp. 74-84.