

ECAD7004C: Ymchwilio i'r Dysgu: beth, sut a pham rydw i'n addysgu?

Sesiwn 8

Ystyriwch eich ymchwil chi...

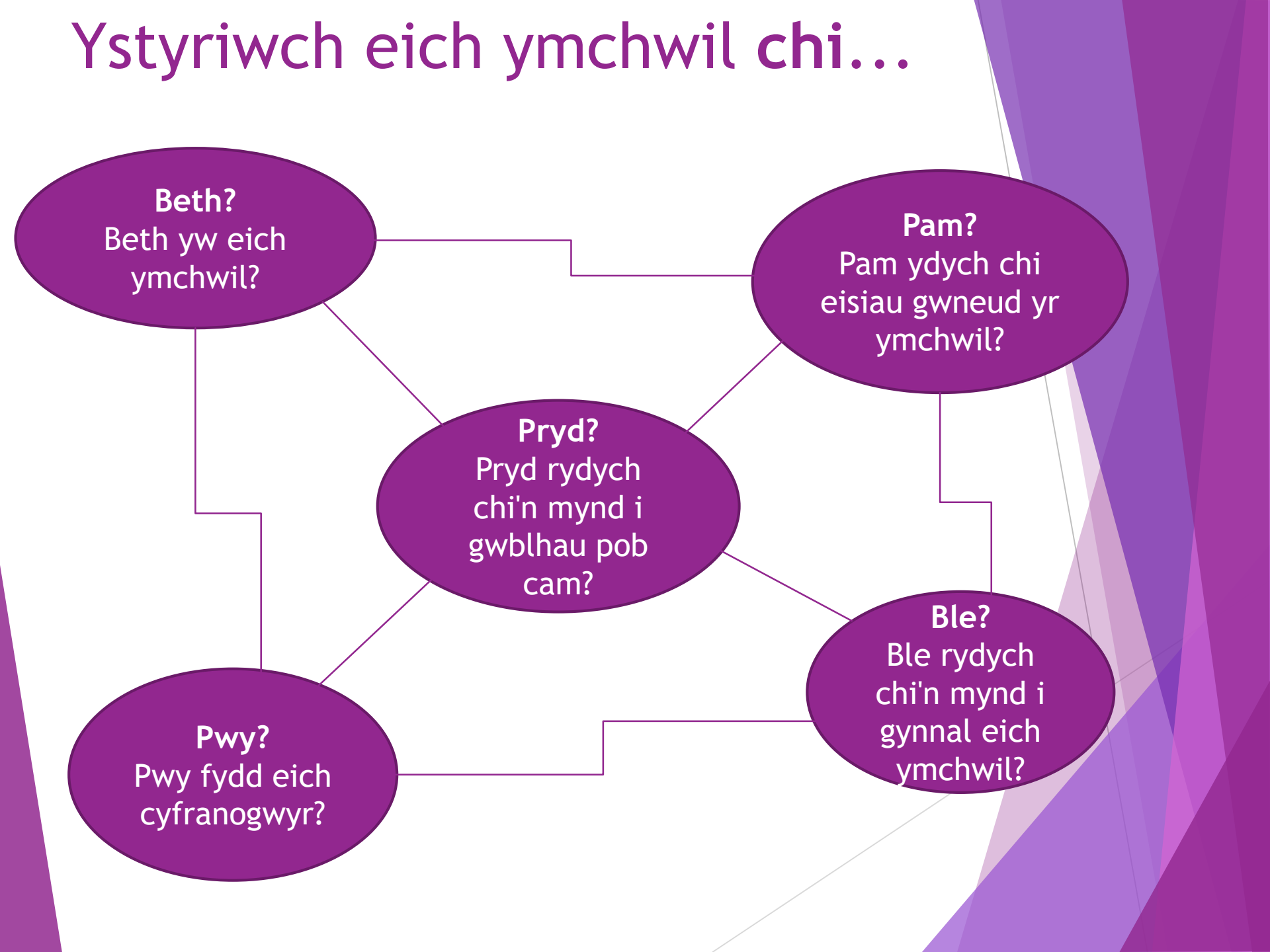
Beth?
Beth yw eich
ymchwil?

Pam?
Pam ydych chi
eisiau gwneud yr
ymchwil?

Pryd?
Pryd rydych
chi'n mynd i
gwblhau pob
cam?

Ble?
Ble rydych
chi'n mynd i
gynnal eich
ymchwil?

Pwy?
Pwy fydd eich
cyfranogwyr?



Esiampyl:

Sut y gallwn wella xxx drwy ddefnyddio
xxx yn xxx?

Diffiniadau gweithredol

Mae diffiniad gweithredol, pan gaiff ei gymhwyso i gasglu data, yn ddiffiniad manwl clir, cryno o fesur. Mae'r angen am ddiffiniadau gweithredol yn sylfaenol wrth gasglu pob math o ddata. Mae'n arbennig o bwysig pan fydd penderfyniad yn cael ei wneud ynghylch a yw rhywbeth yn gywir neu'n anghywir, neu pan fydd gwiriad gweledol yn cael ei wneud lle y mae lle i ddryswch.

An operational definition:

- ▶ Must be valid for and specific to the research - it must be used to gather data to help you address your research question;
- ▶ Is always context-specific, designed for each research project.

Matthew and Ross, 2010

Operational Definition

An Operational Definition is a detailed description that defines a measure to such a degree that everyone collects data the same way.

**OP
DEF**

of Sandwiches:

The total number of items with something delicious between two slices of bread

1, 2, 3... wait
a second!



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Diffiniadau gweithredol

TABLE 4.1 Operational Definitions

Conceptual Variable	Operational Definitions
Employee satisfaction	Number of days per month that t Rating of job satisfaction from 1 (
Aggression	Number of presses of a button th Time taken to honk the horn at the car ahead after a stoplight turns green
Attraction	Number of inches that an individual places his or her chair away from another person Number of millimeters of pupil dilation when one person looks at another
Depression	Number of negative words used in a creative story Number of appointments with a psychotherapist
Decision-making	Number of people correctly solving a group performance task Speed at which a task is solved

Variable	Operational definition	Value
Intelligence	Score on the Verbal SAT test (a standardized test)	550
Age	Response to questionnaire (a self-report measure)	21
Intelligence	Speed of repairing engine (a behavioral definition)	2 hrs
Intelligence	Number of hairs on left thumb (a stupid definition)	7

Adlewyrchwch ar...



- ▶ Ydych chi wedi gweithredoli'r cysyniadau yn eich cwestiwn ymchwil?
- ▶ A yw eich diffiniadau'n eich galluogi i gael data a fydd yn ateb eich cwestiynau?
- ▶ A yw eich diffiniadau yn eich helpu i ddisgrifio'r cysyniad mewn termau y gallwch eu nodi a'u mesur?
- ▶ A fyddwch chi'n casglu data **wrth** neu **am** y bobl a'r sefyllfaoedd rydych chi'n eu dweud ydych chi?
- ▶ A yw eich diffiniadau'n benodol i gyd-destun a gosodiad eich ymchwil?
- ▶ Ydych chi'n siŵr eich bod yn gallu cael y data rydych chi'n meddwl eich bod yn ei gael?

Profwch eich cwestiwn

**Targeted
Enough**

Read your question to someone outside of your course – do they understand what you are planning to look at and why?

Answerable

Can you actually answer your question?
What evidence do you need to enable you to answer?

Realistic

Can you find everything you need, and can you find it ethically?

Doable

Can you answer this question in the time you have available?

Tick the box if your question meets the criteria:

☐☐☐☐

Unrhyw gwestiynau?



