BRO PEDR

STRATEGAETH RHIFEDD
NUMERACY STRATEGY

2024-2025

STRATEGAETH RHIFEDD

YSGOL BRO PEDR

NUMERACY STRATEGY

Diffiniad o beth yw rhifedd / Definition of numeracy

Adroddiad PAEM

"Mae rhifedd yn fedr bywyd hanfodol sy'n galluogi dysgwyr i gymhwyso ffeithiau, medrau a rhesymu rhifiadol i broblemau go iawn".

HMCI Report:

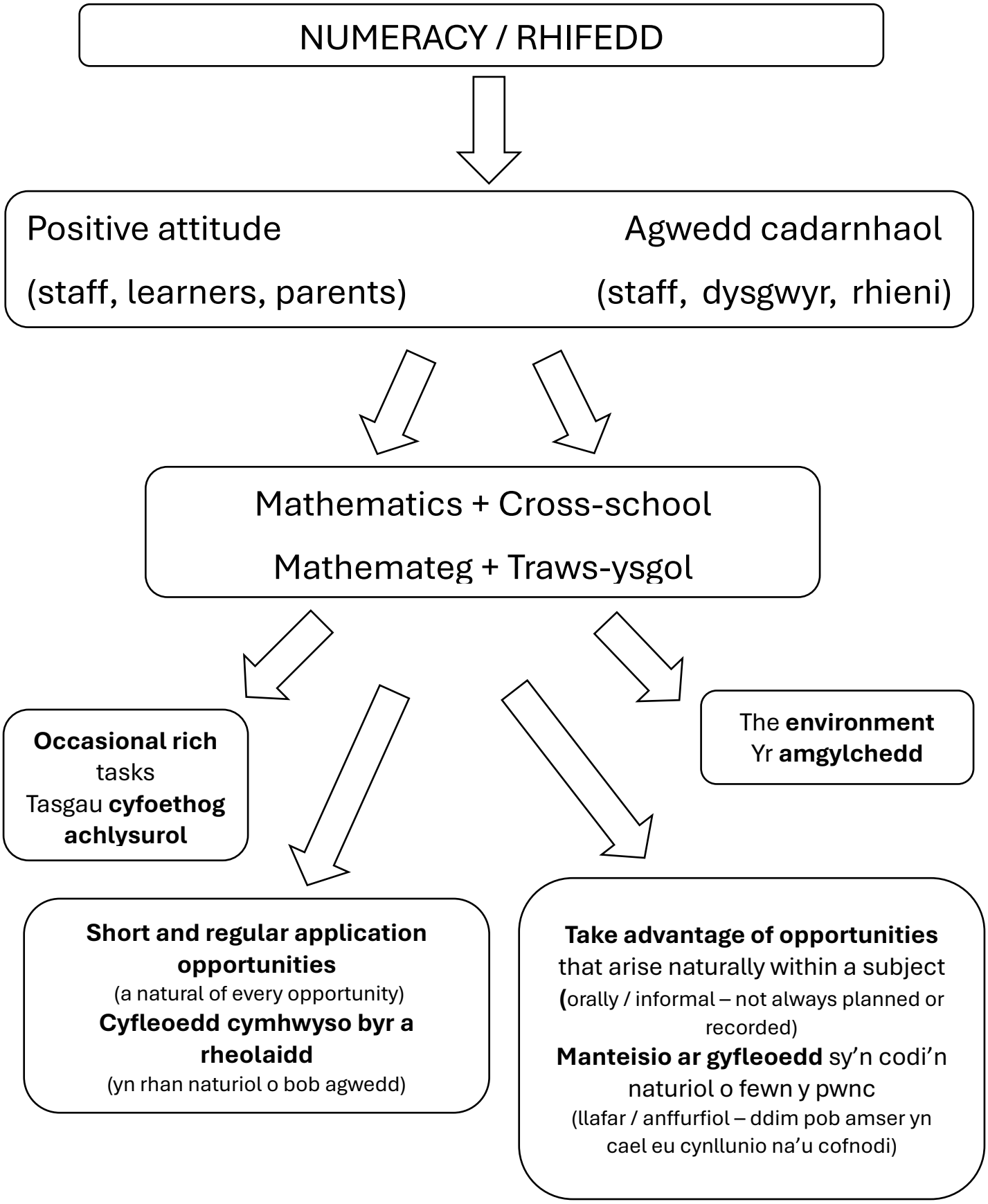
"Numeracy is an essential life skill that enables learners to apply numerical facts, skills and reasoning to real-life problems".

"Mae rhifedd yn fedr hanfodol sy'n galluogi disgyblion i gymhwyso eu ffeithiau, medrau a rhesymu rhifiadol i ddatrys problemau. Er bod disgyblion fel arfer yn dysgu'r medrau hyn yn ystod sesiynau mathemateg, i fod yn gwbl rifiadol, rhaid iddynt allu **cymhwyso'r** medrau hyn mewn **meysydd pwnc eraill** ac **ystod eang o gyd-destunau.**"

Estyn, Medi 2021

"Numeracy is an essential skill that enables pupils to apply their numerical facts, skills and reasoning to solve problems. Although pupils usually learn these skills during mathematics sessions, to be fully numerate they must be able to **apply** these skills in **other subject areas** and a **wide range of contexts.**

Estyn, September 2021


NUMERACY / RHIFEDD
Positive attitude
(staff, learners, parents)
Agwedd cadarnhaol
(staff, dysgwyr, rhieni)
Mathematics + Cross-school
Mathemateg + Traws-ysgol
Occasional rich tasks
Tasgau cyfoethog achlysurol
The environment
Yr amgylchedd
Short and regular application opportunities
(a natural of every opportunity)
Cyfleoedd cymhwyso byr a rheolaidd
(yn rhan naturiol o bob agwedd)
Take advantage of opportunities
that arise naturally within a subject
(orally / informal – not always planned or recorded)
Manteisio ar gyfleoedd sy'n codi'n naturiol o fewn y pwnc
(llafar / anffurfiol – ddim pob amser yn cael eu cynllunio na'u cofnodi)

1. **Tasgau cyfoethog achlysurol –** tasgau achlysurol wedi'u cynllunio'n ofalus gyda ffocws clir ar rifedd o fewn cyd-destunau pynciol.
   Occasional rich tasks – occasional tasks that are carefully planned with a clear focus on numeracy within subject contexts.

2. **Cyfleoedd cymhwyso byr –** cwestiynau unigol yn hytrach na thasgau swmpus, yn rhan naturiol o bob agwedd o fathemateg a phynciau ar draws y cwricwlwm
   Short application opportunities – individual questions rather than bulky tasks, a natural aspect of all aspects of mathematics and subjects across the curriculum.

3. **Tasgau byr rheolaidd –** Manteisio ar gyfleoedd bob dydd sy'n codi'n naturiol o fewn y pwnc. Tasgau byr, sionc a niferus sydd ddim bob amser yn cael eu cynllunio o flaen llaw nac ychwaith yn cael eu cofnodi'n ffurfiol bob tro, e.e. byrddau gwyn, cefn llyfr, ar lafar.
   Short regular tasks – Taking advantage of daily opportunities that arise naturally within a subject. Short, sharp and regular tasks which are not always planned beforehand or recorded formally e.g. whiteboards, back of the book, orally.

4. **Yr amgylchedd –** rhifedd o fewn y dosbarth, mannau cyhoeddus a thu allan, e.e. arddangosfeydd, posteri gwybodaeth (trosiadau metrig, darllen graddfa), clociau, infographics, offer, sbardunau gweledol a.y.y.b.
   The environment – numeracy within the classroom, public areas and outside e.g. displays, information postewrs (metric conversions, reading a scale), clocks, inforgraphics, equipment, visual triggers etc

Aims / Nodau

- i hybu ymagwedd bositif mewn mathemateg a rhifedd a helpu disgyblion i werthfawrogi pwysigrwydd mathemateg yn eu bywydau
  to promote a positive attitude towards mathematics and numeracy and hep pupils appreciate the importance of mathematics in their lives
- i wella safonau mewn mathemateg;
  to improve standards in mathematics
- i wella safonau mewn pynciau lle mae'r agwedd fathemategol yn bwysig;
  to improve standards in subjects where the mathematical aspect is important
- i alluogi disgyblion i ymarfer defnyddio a chymhwyso eu sgiliau mathemategol mewn cyd-destunau amrywiol a thraws-gwricwlaidd er mwyn dyfnhau dealltwriaeth;
  to allow pupils to practise using and applying their mathematical skills in a variety of cross-curricular contexts in order to deepen their understanding

Cyfrifoldebau'r Adran Fathemateg / Athrawon Mathemateg yw:
Responsibilities of Mathematics Department / Mathematics Teachers are:

1. Hybu **agweddau cadarnhaol** at rifedd wrth ymwneud â'r dysgwyr;
   Promote **positive attitudes** towards numeracy when interacting with learners

2. Sicrhau cyfleodd i ddisgyblion ymarfer ac atgyfnerthu eu sgiliau mathemategol gweithdrefnol;
   Ensure opportunities for pupils to practise and consolidate their procedural mathematical skills

3. Sicrhau cyfleoedd i ddisgyblion gymhwyso eu sgiliau rhifedd mewn cyd-destunau pwrpasol fel rhan naturiol o bob agwedd o'r pwnc;
   Ensure opportunities for pupils to practise and consolidate their numeracy skills in appropriate contexts as a natural part of every aspect of the subject

4. Arwain a chefnogi ymarferwyr eraill er mwyn sicrhau cywirdeb a chysondeb
   Lead and support other practitioners to ensure accuracy and consistency

5. Darparu awyrgylch ac arddangosfeydd sy'n galluogi'r dysgwyr i ddatblygu, gwella a herio eu gwybodaeth rhifedd.
   Provide an environment and displays that allow learners to develop, improve and challenge their numeracy knowledge

Cyfrifoldebau'r Adrannau pynciau galw uchel yw:
Responsibilities of higher order subjects:
(Diffinir y pynciau galw uchel fel Gwyddoniaeth, Daearyddiaeth, Dylunio a Thecholeg ac elfennau o Addysg Gorfforol)
(Higher order subjects are defined as Science, Geography, Design and Technology and elements of Physical Education).

1. Hybu **agweddau cadarnhaol** at rifedd wrth ymwneud â'r dysgwyr;
   Promote **positive attitudes** towards numeracy when interacting with learners

2. Manteisio yn rheolaidd ar gyfleoedd sy'n codi yn naturiol o fewn y pwnc i sicrhau bod disgyblion yn ymarfer, atgyfnerthu, datblygu a gwella'u sgiliau sylfaenol mathemategol.
   Take regular advantage of opportunities that arise naturally within the subject to ensure pupils are practising, reinforcing, developing and improving their basic mathematical skills.

3. Cynllunio'n fwriadus er mwyn sicrhau bod cyfleoedd i ddisgyblion gymhwyso eu sgiliau rhifedd at bwrpas o fewn cyd-destun y pwnc gan sicrhau bod tasgau cyfoethog achlysurol wedi'u nodi o fewn y cynllun gwaith;
   Intentional planning to ensure that pupils are given opportunities to purposefully apply their numeracy skills within the subject context whilst making sure that occasional rich tasks are noted within their scheme of work

4. Sicrhau eu bod yn gyfarwydd â nodiant, confensiynau, technegau, iaith a therminoleg briodol ac yn annog dysgwyr i ddefnyddio'r rhain yn gywir;
   Make sure they are familiar with proper notation, conventions, techniques, language and terminology and that they encourage learners to use these correctly.

5. Hybu gwaith di-gyfrifiannell ac annog disgyblion i ddefnyddio strategaethau pen / ysgrifenedig effeithiol. Caniatau cyfrifiannell yn unig pan fo'n briodol
   Promote non-calculator work and encourage pupils to use mental / written strategies efficiently. Calculator allowed only when it is appropriate

6. Darparu awyrgylch ac arddangosfeydd sy'n galluogi'r dysgwyr i ddatblygu, gwella a herio eu gwybodaeth rhifedd.
   Provide an environment and displays that allow learners to develop, improve and challenge their numeracy knowledge

Cyfrifoldebau pob adran / pob athro yw:
Responsibilities of all departments / every teacher are:

1. Hybu **agweddau cadarnhaol** at rifedd wrth ymwneud â'r dysgwyr;
   Promote **positive attitudes** towards numeracy when interacting with learners

2. Manteisio yn rheolaidd ar gyfleoedd sy'n codi yn naturiol o fewn y pwnc i sicrhau bod disgyblion yn ymarfer, atgyfnerthu, datblygu a gwella'u sgiliau sylfaenol mathemategol.
   Take regular advantage of opportunities that arise naturally within the subject to ensure pupils are practising, reinforcing, developing and improving their basic mathematical skills.

3. Sicrhau eu bod yn gyfarwydd â nodiant, confensiynau, technegau, iaith a therminoleg briodol ac yn annog dysgwyr i ddefnyddio'r rhain yn gywir;

   Make sure they are familiar with proper notation, conventions, techniques, language and terminology and that they encourage learners to use these correctly.

4. Hybu gwaith di-gyfrifiannell ac annog disgyblion i ddefnyddio strategaethau pen / ysgrifenedig effeithiol. Caniatau cyfrifiannell yn unig pan fo'n briodol
   Promote non-calculator work and encourage pupils to use mental / written strategies efficiently. Calculator allowed only when it is appropriate

5. Darparu awyrgylch ac arddangosfeydd sy'n galluogi'r dysgwyr i ddatblygu, gwella a herio eu gwybodaeth rhifedd.
   Provide an environment and displays that allow learners to develop, improve and challenge their numeracy knowledge