MATHEMATEG / *MATHEMATICS*

Manyleb

1. Rhif
2. Algebra
3. Geometreg a mesurau
4. Ystadegaeth a thebygolrwydd

Mae'r cymhwyster TGAU Mathemateg a Rhifedd (Dwyradd) yn cefnogi dysgwyr i:

- wneud cysylltiadau rhwng gwahanol feysydd mathemateg a meysydd eraill o'r cwricwlwm
- datblygu eu dealltwriaeth gysyniadol wrth esbonio, mynegi a chynrychioli cysyniadau mewn ffurfiau diriaethol a haniaethol
- cyfleu sefyllfaoedd haniaethol a senarios byd go iawn gan ddefnyddio symbolau a mynegiadau mathemategol
- datblygu eu gallu i ddefnyddio ffeithiau, technegau a pherthnasoedd mathemategol yn ddidrafferth i ddatrys problemau
- adnabod strwythurau mathemategol sylfaenol o fewn problemau a datblygu strategaethau i'w datrys
- datblygu dealltwriaeth o'r berthynas rhwng cysyniadau mathemategol a'r defnydd o gyfiawnhad a phrofion
- sicrhau sylfaen gref mewn mathemateg ariannol i'w paratoi ar gyfer bywyd a gwaith
- datblygu hyder wrth ddefnyddio a chymhwyso technoleg ddigidol i helpu i ddatrys problemau mathemategol ac ystadegol.

Dulliau Asesu

Uned 1: Mathemateg Ariannol a Chymwysiadau Eraill o Rifedd
Arholiad ysgrifenedig
Haen Uwch: 1 awr 45 munud (80 marc)
Haen Sylfaenol: 1 awr 30 munud (65 marc)
30% o'r cymhwyster

Uned 2: Digyfrifiannell
Arholiad ysgrifenedig
Haen Uwch: 1 awr 45 munud (80 marc)
Haen Sylfaenol: 1 awr 30 munud (65 marc)
30% o'r cymhwyster

Uned 3: Caniateir cyfrifiannell
Arholiad ysgrifenedig
Haen Uwch: 2 awr (90 marc)
Haen Sylfaenol: 1 awr 45 munud (75 marc)
40% o'r cymhwyster

Syllabus

1. *Number*
2. *Algebra*
3. *Geometry and measures*
4. *Statistics and probability*

GCSE Mathematics and Numeracy (Double Award) qualification supports learners to:

- *make connections between different areas of mathematics and with other areas of the curriculum*
- *develop their conceptual understanding in explaining, expressing and representing concepts in both concrete and abstract forms*
- *communicate both abstract situations and real-world scenarios using mathematical symbols and expressions*
- *develop their ability to use mathematical facts, techniques and relationships fluently to solve problems*
- *recognize underlying mathematical structures within problems and develop strategies to solve them*
- *develop an understanding of relationships between mathematical concepts and the use of justifications and proofs*
- *gain a strong foundation in financial mathematics to equip them for life and work*
- *develop confidence in using and applying digital technology to help solve mathematical and statistical problems.*

Assessment methods

Unit 1: Financial Mathematics and Other Applications of Numeracy
Written examination
Higher Tier: 1 hour 45 minutes (80 marks)
Foundation Tier: 1 hour 30 minutes (65 marks)
30% of qualification

Unit 2: Non-calculator
Written examination
Higher Tier: 1 hour 45 minutes (80 marks)
Foundation Tier: 1 hour 30 minutes (65 marks)
30% of qualification

Unit 3: Calculator-allowed
Written examination
Higher Tier: 2 hours (90 marks)
Foundation Tier: 1 hour 45 minutes (75 marks)
40% of qualification