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Beckfoot Upper Heaton Mathematics Curriculum Intent

“We want our students to enjoy learning maths which comes through a growing belief in their own ability to achieve successfully within the respective challenges they undertake daily. We believe this is achieved when children become fluent in the fundamentals of mathematics and learn through varied and frequent practice with increasingly complex problems over time. With this confidence they can succeed by being able to explain their thinking, apply their reasoning skills and solve challenging mathematical problems.”

Maths Intent

To equip students with numeracy skills in order to confidently solve problems and reason mathematically.

Develop a sense of enjoyment and curiosity about Maths.

Develop character, including resilience, confidence and independence.

To be fluent in key mathematical concepts.

Have a foundation for understanding the world.

Have the ability to reason mathematically.

To apply knowledge to problem solving in the real world.

Gain an insight into the maths by using it in contexts students recognise and understand.

An appreciation of the power of mathematics and its intricacies.

Provide the best possible standard of teaching and opportunities for learning.

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Confident Communicators	Knowledgeable and Expert Learners
<p><i>To create confident communicators, the Maths curriculum:</i></p> <ul style="list-style-type: none"> • Enables students to explain their solutions verbally • Encourages use of oracy skills • Develops clear logical written solutions to be made • Makes deductions inferences and draw conclusions from maths information <p><i>The Maths curriculum provides opportunities for all learners to:</i></p> <ul style="list-style-type: none"> • Articulate how and why they have arrived at their solutions. This encourages oracy skills which are further developed in their written answers. Solutions are presented in clear steps linking to reasoning in context. 	<p><i>To create knowledgeable and expert learners, the Maths curriculum:</i></p> <ul style="list-style-type: none"> • Using knowledgeable and enthusiastic specialists our students are encouraged to develop a detailed knowledge of the overview of maths • Lessons are planned carefully so teachers have an awareness of pupil misconceptions • Students are challenged and enjoy success • Teachers are clear on facts, terminology and definitions • Lessons are inclusive to enable all learners of different needs to make progress supplemented by the intervention programme to enable all pupils to achieve their potential <p><i>The Maths curriculum provides opportunities for all learners to:</i></p> <ul style="list-style-type: none"> • Use and apply Maths knowledge and skills • Demonstrate their understanding using a range of question types in assessments. • Make and use connections between different topics of Maths • Ask questions. • Evaluate methods and the results obtained

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Committed Community Contributors	Future-Ready Young People
<p><i>To create committed community contributors, the Maths curriculum:</i></p> <ul style="list-style-type: none"> • We enrich learners’ experiences through the UKMT challenges, stretch and challenge events, puzzle groups, financial literacy and further reading materials. • We also provide students with opportunities to develop their cultural capital by keeping abreast of current affairs and incorporating into lessons as appropriate. For example: Business, Politics, Finance, Statistics. <p><i>The Maths curriculum provides opportunities for all learners to:</i></p> <ul style="list-style-type: none"> • Application of Maths in Work Experience • Actively promote pupils’ Spiritual, Moral, Social, and Cultural (SMSC) development • Promote British Values throughout, supporting all pupils to experience these concepts at a level that is meaningful for them. 	<p><i>To create future-ready young people, the Maths curriculum:</i></p> <ul style="list-style-type: none"> • Covers knowledge and skills that relate to most types of employment • Incorporates topics based on finance into lessons • Has a particular focus on raising aspirations of female students • Relates maths to current topical situations • Provides enrichment opportunities including the UKMT/AMSP challenges • Involves pair/group activities so students are confident at working together. <p><i>The Maths curriculum provides opportunities for all learners to:</i></p> <ul style="list-style-type: none"> • Discover skills and knowledge suitable for employment • Apply their mathematical understanding during Work Experience • Learn from mistakes and take calculated risks • Make links to careers in the future. • develops a range of employable skills: analysis and evaluation, problem solving, reasoning and logic. In addition we encourage discussion about careers that Maths could lead towards.