Maths at Hope House School

Provision

At Hope House we follow the White Rose Maths and Functional Skills Programmes:

White Rose Maths

White Rose Maths supports a mastery approach to teaching and learning and has been designed to support the aims and objectives of the National Curriculum. This ensures the pupils develop a deeper understanding of the learning objectives. It supports Hope House School's aims to provide an individualised, accessible programme of learning for each pupil, ensuring they are working at a level and pace that supports each pupil's individual needs and academic abilities.

White Rose Maths uses the CPA approach; this helps children learn new ideas and build on their existing knowledge by introducing abstract concepts in a more familiar and tangible way. The approach is firmly embedded in White Rose Maths teaching. Concrete is the "doing" stage, using concrete objects to model problems. At Hope House School we use a range of concrete resources in all maths lessons to support the pupils' learning. Pictorial is the "seeing" stage, it uses representations of the objects to model problems. This stage encourages pupils to make a mental connection between the physical object and abstract levels of understanding by drawing or looking at pictures, circles, diagrams, or models which represent the objects in the problem. Abstract is the "symbolic" stage, where pupils use abstract symbols to model problems. Once a child has demonstrated that they have a solid understanding of the "concrete" and "pictorial" representations of the problem, the teacher can introduce the more "abstract" concept, such as mathematical symbols.

Here is a link to the White Rose website for you to have a look at.

www.whiterosemaths.com

There is also a very useful document outlining where the White Rose Scheme matches all the learning objectives set out in the National Curriculum framework so that we, as educators and you as parents and carers, are able to see where your student is facilitating their maths learning, and where they will be moving on to in their next steps. It is called National Curriculum Progression and the link to it is https://www.ncetm.org.uk/classroom-resources/progression-maps-for-key-stages-1-and-2/

Functional Skills

Functional Skills provides assessment of pupils' knowledge as well as their ability to apply this in different contexts. It provides a foundation for progression into employment or further education and develop skills for everyday life.

Functional Skills for Entry Levels allows pupils to demonstrate an understanding of the basics of mathematical skills appropriate to the level, and the ability to apply mathematical thinking to solve simple problems in familiar situations.

Functional Skills for Level 1 and Level 2 provides pupils with a qualification for work, study and life. It allows pupils to demonstrate an understanding of mathematical skills at the appropriate level and the ability to apply mathematical thinking effectively to solve problems successfully in the workplace and in other real-life situations.

Programmes

We also use a variety of programmes to aid our lessons and to support the pupils with their learning, including MyMaths and BKSB.

MyMaths

MyMaths is an online programme which offers interactive lessons, revision packs, online worksheets and homework, and resources to aid the delivery of lessons. It follows the UK National Curriculum and allows us to set work and track pupils progress; it is used primarily with our primary level pupils. We often set pupils the online homework after new topics have been introduced, to give pupils opportunity to develop their understanding. It has been particularly useful for pupils who are remote learning, as we can set pupils tasks online, for them to access from home. We can then check pupils progress to determine whether they need further lessons on that topic.

BKSB

BKSB is an online programme which offers assessments, learning resources and learning plans for pupils. It works alongside Functional Skills programmes and it is used primarily with our secondary ages pupils and the pupils who are learning through the Functional Skills

programme. Pupils can complete initial assessments to determine their overall level of ability in Maths. They then complete a diagnostic assessment which assesses their levels for the various topic, including number, measure, shape and space and statistics and data. These assessments then produce an individual learning plan to tailor the learning resources to each pupil's needs and levels. Pupils repeat both assessments each term to determine any progress they have made in the previous term and identify any gaps in knowledge. We can track pupils progress through progress checks.

Assessment

To assess our pupil's knowledge and understanding, we carry out termly assessments based on the topics the pupils have focused on the previous term. Both White Rose Maths and Functional Skills programmes provide assessment papers based on the topics taught in each unit. BKSB can also be used to assess pupils who are learning through Functional Skills and it offers practise exam papers for each level.

We are also in the process of developing a progress tracker, which will include a breakdown of the individual learning objectives within each unit. It will track how each pupil is progressing within each topic and will indicate when each pupil is ready to move onto the next unit.

White Rose Maths has a wonderful selection of online lessons in the event that students once again have to stay at home again during the school term. Should this be the case, Virtual lessons will still be offered; giving pupils the opportunity to remain in contact with school staff, which can support their mental health and well-being. Virtual sessions work differently depending on the needs, abilities and understanding of each pupil. Some virtual sessions involve speaking to the pupils to gauge how they are doing with their home learning packs, and it allows pupils to work through them with staff and to ask questions about anything they are unsure of. Some virtual sessions are live sessions, where pupils join into the lessons being taught to their group of peers.