



Maths at Northlands

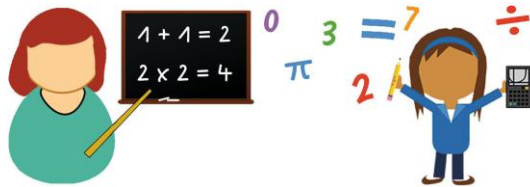
Lessons

Lessons are an hour in length and should broadly follow this guideline:

Starter – 5 minutes of mental skills, AfL questions, revisiting concepts and times tables

Main body – a ping-pong approach to learning including modelled examples followed by at least 30 minutes of independent working time

Plenary – 5 minutes of delving deeper into a question or recapping mental skills



Activities

Lesson activities are structured into **Bronze**, **Silver** and **Gold** with additional problem solving and reasoning questions alongside.

Generally, bronze is the **minimum age-related expectation for fluency** and the minimum that all children should achieve by the end of the unit. Fluency, reasoning and problem solving should be evident in every unit.



Marking

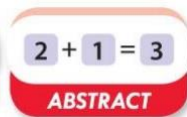
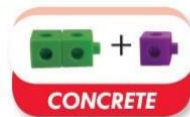
Maths books should be marked with a **blue pen tick** for correct answers and a **blue pen dot** for incorrect answers. Children should then attempt to correct these with a purple pen, A comment can be given at the end of work along with any extensions or feedback that need to be given.

Marking should be completed throughout the lesson to allow for instant feedback.



Planning

- Weekly planning/resourcing is to be completed by each set teacher.
- WALTs should reference skills directly from the Maths Progression Drive
- Steps to success should be displayed in every lesson.
- Lesson slides should be carefully planned to explicitly model methods including answering reasoning and problem solving questions
- Units should be based around a concrete, pictorial, abstract approach



Mental Maths Skills

Opportunities to practise mental maths skills should be utilized **within lessons** as well as in **at least one 30-minute discrete session throughout the week**.

Each year group will focus on one Key Instant Recall Fact (KIRF) per half term in order to consolidate this skill.

Times tables will be taught explicitly in sessions using the counting stick technique. Children should be encouraged to use TT Rockstars and rewards given.



Weekly timetable

Mon – Thurs – teaching new concepts and completing carefully pitched Bronze, Silver and Gold activities. Depending on the topic, a concept would generally be taught across one or two lessons.

Fri – weekly times table teaching and arithmetic session. A taught arithmetic element should be introduced followed by independent arithmetic practice. This should be followed by clear modelling of methods to go through answers. Children should then be exposed to a taught section on tackling reasoning problems. Opportunities should also be taken for cross-curricular links across topic and science lessons to practice maths skills.