

HIAS MOODLE+ RESOURCE

# Year 4 Unit Plan: 4.8

**Spring Term**

HIAS Maths Team  
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Final version

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# Overview

## **In this document**

Year 4 Unit Plans linked to Medium Term Overview

## **Points to consider when using this resource**

These unit plans provide an example of how medium term planning could be developed into units of work. These unit plans will need to be adapted to meet the needs of pupils. The unit plan provides an outline of a possible learning journey with suggestions of types of tasks that could be used. They also identify key prior learning; some common misconceptions and an indication of key skills pupils need to develop towards competency. It is assumed that teachers will make use of appropriate mathematical representations (manipulatives, visuals and symbolic) to support conceptual understanding for pupils alongside procedural fluency.

## Year 4 Unit 4.8 – Measurement (Time)

This unit is about telling and recording time. There are opportunities to secure understanding with 12 hour analogue time using AM and PM and 24 hour digital time. It is important all pupils discuss and read the time and calculate intervals of time accurately using concrete clock resources with geared hands. Some pupils will need additional support for reading the time and working out intervals of time.

**Find every day opportunities to tell the time from an analogue clock and a 24 hour clock. Estimate and read time with increasing accuracy to the nearest minute. Convert from hours to minutes, minutes to seconds, years to months, weeks to days**

| Session | Unit Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Types of task                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5       | <ul style="list-style-type: none"> <li>Read, write and convert time between analogue and digital 12-hour and 24-hour clocks.</li> <li>Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.</li> <li>Represent time intervals on a number-line</li> <li>Know 1 hour = 60 minutes; <math>\frac{1}{2}</math> hour = 30 minutes, <math>\frac{1}{4}</math> hour = 15 minutes, <math>\frac{3}{4}</math> hour = 45 minutes</li> <li>Know 1 minute = 60 seconds; 365 days in a year (366 in a leap year); 14 days in a fortnight</li> </ul> | <p><b>Focus on the language needed to read analogue time</b>, particularly 'to' the hour eg 25mins to 3 and recording as 2.35 am/pm<br/>Look at complements to 60 so 5.45pm is linked to <math>15+45=60</math>mins, forty-five minutes past 5 or quarter to 6<br/>15 mins= one quarter</p> <p><b>Solve problems</b> using contexts such as TV programmes or local bus and train timetables to calculate intervals of time. Check pupils are able to convert units when solving problems.</p> <p>Record solutions using a sequence of clock faces showing each time and or on number lines, bridging through 60.</p> |

| Check and refresh                                                                                                                                                                                                             | Watch out for...                                                                                                                                                                                 | Building fluency                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Key facts about time using bar models: Whole/ half / quarter of one hour, one day</li> <li>Converting units: hours/ mins; minutes and seconds</li> <li>12 hour digital time</li> </ul> | <ul style="list-style-type: none"> <li>Pupils who can 'read' digital time but not relate to analogue</li> <li>Pupils calculating time with formal methods rather than on number lines</li> </ul> | <ul style="list-style-type: none"> <li>Know number of days in each month</li> <li>Number of days in a year, leap year</li> <li>Converting between analogue and digital 12hour and 24-hour clocks</li> <li>Number facts for 60</li> <li><math>5+15</math>; <math>10+50</math>; <math>15+45</math> etc with linked subtraction facts i.e. <math>60-15=45</math></li> </ul> |

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