## Step 6: 24-hour Clock

## National Curriculum Objectives:

Mathematics Year 3: (3M4b) Tell and write the time from an analogue clock and 24-hour clocks
Mathematics Year 3: (3M4d) Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., Before noon, afternoon, noon and midnight

## Differentiation:

Questions 1, 4 and 7 (Problem Solving)
Developing Ordering train times. 3 times, using 15 minute intervals.
Expected Ordering train times. 5 times, using 5 minute intervals.
Greater Depth Ordering train times. 5 times, using 1 minute intervals.
Questions 2, 5 and 8 (Reasoning)
Developing Finding the right robber based on times they were seen leaving a crime scene. 2 options, using 15 minute intervals.
Expected Finding the right robber based on times they were seen leaving a crime scene. 4 options, using 5 minute intervals.
Greater Depth Finding the right 2 robbers based on times they were seen leaving a crime scene. 4 options, using 1 minute intervals.

Questions 3, 6 and 9 (Problem Solving)
Developing Sorting times ( 24 -hour clock, words and analogue clock) into 3 categories ('Before noon', 'After noon', and 'Can't tell'). 3 times, using 15 minute intervals. Expected Sorting times ( 24 -hour clock, words and analogue clock) into 3 categories ('Before noon', 'After noon', and 'Can't tell'). 4 times, using 5 minute intervals. Greater Depth Sorting times (24-hour clock, words and analogue clock) into 3 categories ('Before noon', 'After noon', and 'Can't tell'). 3 times, using 1 minute intervals.

## More Year 3 Time resources.

Did you like this resource? Don't forget to review it on our website.

1a．Here is an information board at a station．It shows when trains leave．

| Train A | $05: 45$ |
| :---: | :---: |
| Train B | $20: 00$ |
| Train C | $12: 15$ |

Put the trains in order from earliest leaving to latest leaving in the day．

2a．A shop was robbed some time after 10．15am．Detective Ivor Clue knows when some criminals left the shop．

| Rob Erry | $09: 45$ |
| :---: | :---: |
| Justin Jale | $14: 00$ |

Who should Detective Clue arrest？
Explain your answer．
吅
3a．Here are some different times．


Sort them into these categories：


1b．Here is an information board at a station．It shows when trains leave．

| Train A | $17: 30$ |
| :---: | :---: |
| Train B | $11: 15$ |
| Train C | $16: 30$ |

Put the trains in order from latest leaving to earliest leaving in the day．


2b．A shop was robbed some time after 6．45pm．Detective Ivor Clue knows when some criminals left the shop．

| Mo Formee | $15: 30$ |
| :---: | :---: |
| Nick Stuff | $19: 15$ |

Who should Detective Clue arrest？ Explain your answer．
同
3b．Here are some different times．


Sort them into these categories：

| Before noon | After noon | Can＇t tell |
| :---: | :---: | :---: |

4a. Here is an information board at a station. It shows when trains leave.

| Train A | $10: 35$ |
| :---: | :---: |
| Train B | $18: 00$ |
| Train C | $07: 05$ |
| Train D | $02: 15$ |
| Train E | $22: 45$ |

Put the trains in order from latest leaving to earliest leaving in the day.

5a. A shop was robbed some time after 03:35pm. Detective Ivor Clue knows when some criminals left the shop.

| Noah Fewtrix | $9: 35$ |
| :---: | :---: |
| Rob Banks | $16: 30$ |
| Eva Wayin | $15: 10$ |
| Misty Meena | $11: 05$ |

Who should Detective Clue arrest? Explain your answer.

6a. Here are some different times.


Sort them into these categories:

| Before <br> noon | After <br> noon | Can't <br> tell |
| :---: | :---: | :---: |

4b. Here is an information board at a station. It shows when trains leave.

| Train A | $01: 30$ |
| :---: | :---: |
| Train B | $19: 20$ |
| Train C | $06: 10$ |
| Train D | $04: 55$ |
| Train E | $20: 50$ |

Put the trains in order from earliest leaving to latest leaving in the day.

5b. A shop was robbed some time after 01.40pm. Detective Ivor Clue knows when some criminals left the shop.

| Art Forger | $13: 15$ |
| :---: | :---: |
| Nicole Ovit | $10: 45$ |
| Eli Zalot | $13: 50$ |
| Carrie Itov | $12: 35$ |

Who should Detective Clue arrest? Explain your answer.

6b. Here are some different times.


Sort them into these categories:

| Before <br> noon | After <br> noon | Can't <br> tell |
| :---: | :---: | :---: |

7a. Here is an information board at a station. It shows when trains leave.

| Train A | $03: 19$ |
| :---: | :---: |
| Train B | $15: 32$ |
| Train C | $05: 43$ |
| Train D | $20: 56$ |
| Train E | $21: 07$ |

Put the trains in order from earliest leaving to latest leaving in the day.

8a. A shop was robbed some time after 12:24pm. Detective Ivor Clue knows when some criminals left the shop.

| Rob Ing | $12: 19$ |
| :---: | :---: |
| Anna Bitmore | $09: 36$ |
| Kat Burglar | $13: 01$ |
| Will Steal | $12: 26$ |

Who should Detective Clue arrest? Explain your answer.

9a. Here are some different times.


Sort them into these categories:

| Before <br> noon | After <br> noon | Can't <br> tell |
| :---: | :---: | :---: |

7b. Here is an information board at a station. It shows when trains leave.

| Train A | $22: 09$ |
| :---: | :---: |
| Train B | $13: 34$ |
| Train C | $09: 48$ |
| Train D | $15: 27$ |
| Train E | $16: 21$ |

Put the trains in order from latest leaving to earliest leaving in the day.

8b. A shop was robbed some time after 08.13pm. Detective Ivor Clue knows when some criminals left the shop.

| Owen Money | $20: 21$ |
| :---: | :---: |
| Em Bezzle | $08: 43$ |
| Lars Senny | $18: 18$ |
| Phil Mybag | $20: 31$ |

Who should Detective Clue arrest? Explain your answer.

9b. Here are some different times.


Sort them into these categories:

| Before <br> noon | After <br> noon | Can't <br> tell |
| :---: | :---: | :---: |

## Reasoning and Problem Solving

## 24-hour Clock

## Developing

1a. Train A, Train C, Train B.
2a. Justin Jale, because the other criminal left the shop before 10.15am.
3a. Before noon: C. After noon: A. Can't tell: B.

## Expected

4a. Train E, Train B, Train A, Train C, Train D. 5a. Rob Banks, because all the other criminals left the shop before 3.35 pm .
6a. Before noon: A. After noon: C, D. Can't tell: B.

## Greater Depth

7a. Train A, Train C, Train B, Train D, Train E.
8a. Kat Burglar and Will Steal, because all the other criminals left the shop before 12.24 pm .

9a. Before noon: A, B. After noon: C, D, F. Can't tell: E.

Reasoning and Problem Solving 24-hour Clock

## Developing

1b. Train A, Train C, Train B.
2b. Nick Stuff, because the other criminal left the shop before 6.45 pm .
3b. Before noon: A. After noon: C. Can't tell: B.

## Expected

4b. Train A, Train D, Train C, Train B, Train E. 5b. Eli Zalot, because all the other criminals left the shop before 1.40 pm .
6b. Before noon: C. After noon: A, D. Can't tell: B.

## Greater Depth

7b. Train A, Train E, Train D, Train B, Train C.
8b. Owen Money and Phil Mybag,
because all the other criminals left the shop before 8.13pm.
9b. Before noon: F. After noon: A, B, C, D. Can't tell: E

