



Makes Maths Fun

Level 5 TIME

Bloomsmath is a comprehensive mathematics program which provides a fun way for every student to be learning to the best of their ability.

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Time

Level 5 is designed for students in their fifth year at school often called Year 4. Students will read and record time in one-minute intervals and make comparisons between time units.

Knowledge: Students will record the time before and after a given time.



Students who demonstrate proficiency in this activity move on to Comprehension.



Students stop here as they require additional teacher support to master this activity.

Comprehension: Students will match analogue and digital times.



Students who demonstrate proficiency in this activity move on to Application.



Students stop here if time has run out or they require additional support with this activity.

Application: Students will make a clock which is able to match digital and analogue time using moving hands and a pull through number system.



Students who demonstrate proficiency in this activity move on to Analysis.



Students stop here if time has run out or they require additional support with this activity.

Analysis: Students will compare the time in Australia with that found in other countries and record time equivalents.



Students who demonstrate proficiency in this activity move on to Synthesis.



Students stop here if time has run out or they require additional support with this activity.

Synthesis: Students will change all the previous world time to 24-hour time.

Evaluation: Suggested questions provide a starting point for discussions related to Time.



Students may complete more or fewer activities for each learning outcome depending on the time allocated and their strength in the area being covered.















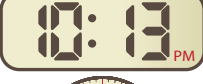










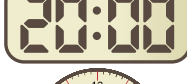






All students should participate in the Evaluation discussion to encourage the use of mathematical language, logical reasoning and reflection on that which they have completed.

Name: _____

Knowledge

See if you can match each analogue and digital time below.

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Let's Try This Again











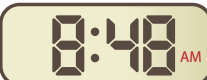



Progress To Comprehension

Name: _____

Comprehension

For each clock shown below record the time 5 minutes before and after this time.

5 Minutes Before	Time	5 Minutes After
		
		
		
		
		
	Quarter past 5	
		
		
	Quarter to 2	
		
	Midday	
		
		
		
		

Time - Level 5 - Students will read and record and compare time in one-minute intervals.

Knowledge

Comprehension

Application

Analysis

Synthesis

Evaluation



Let's Try This Again



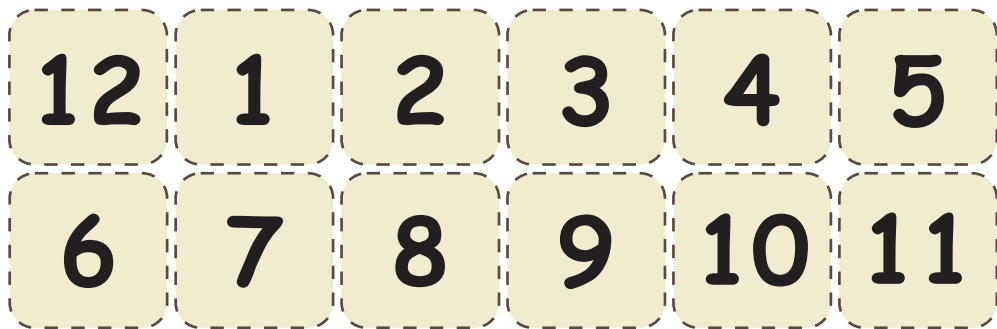
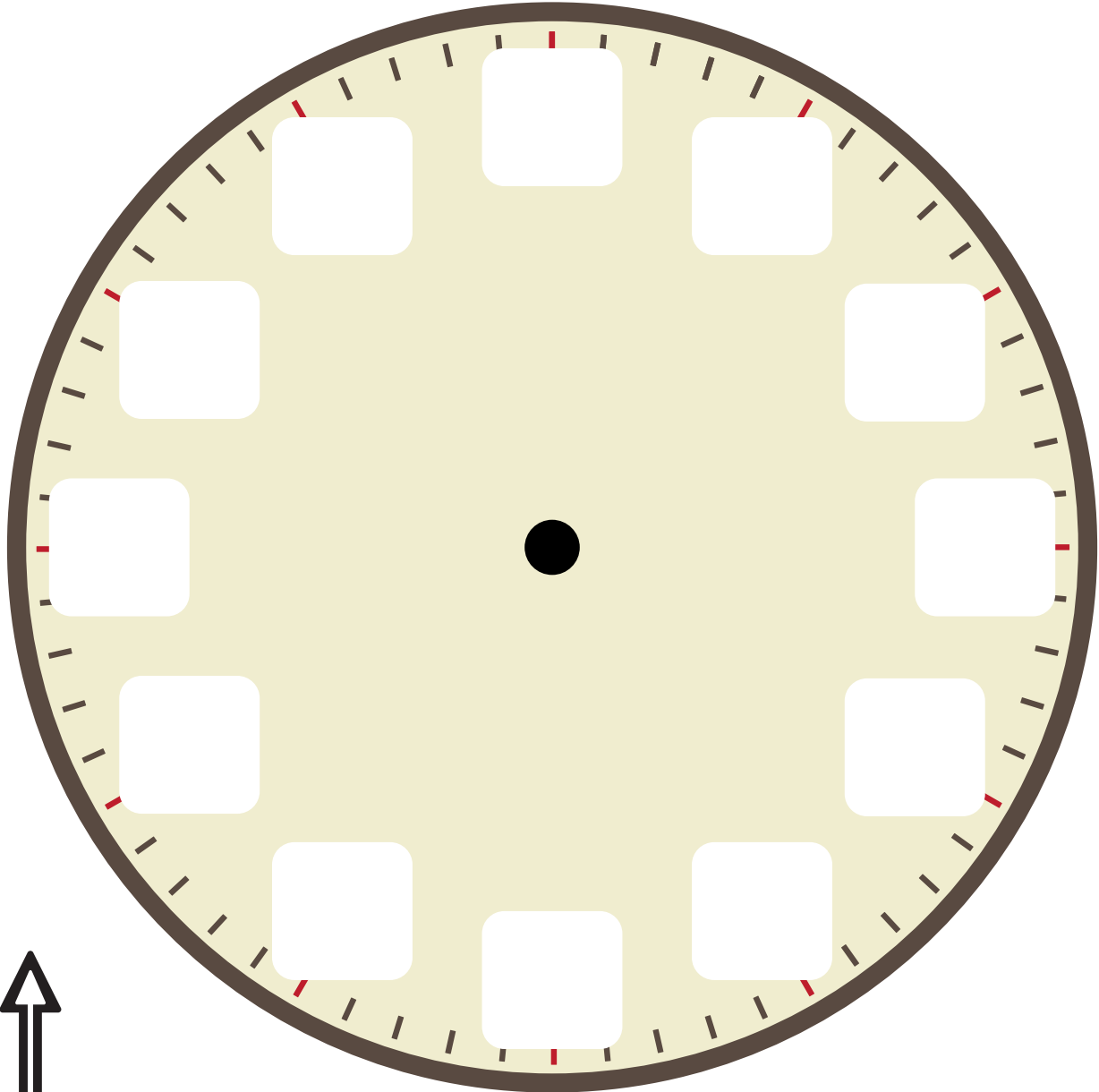
Progress To Application

Name: _____

Application (Part 1)

Use these 2 pages of templates to make a clock which is able to match digital and analogue time using moving hands and a pull through number system.

Digital and Analogue Clocks



Let's Try This Again

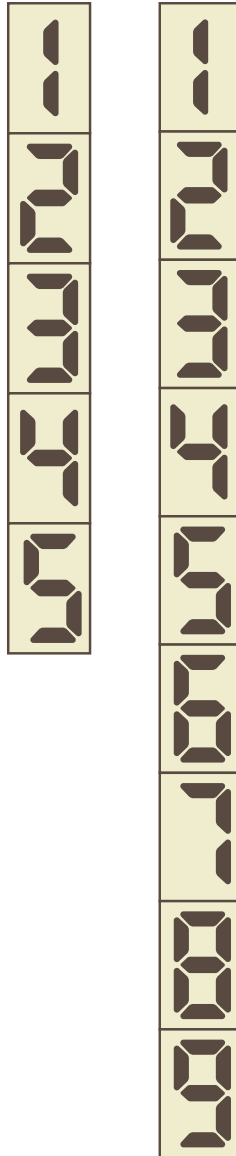
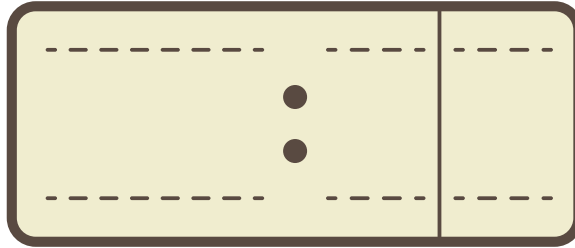


Progress To Analysis

Name: _____

Application (Part 2)

Paste the numbers onto the digital clock and attach the hands using a split pin. Cut along the dotted line and insert the number cards to create a pull through digital clock.



Let's Try This Again



Progress To Analysis

Name: _____

Analysis

Use the information below to help you find the time in each country given the time in Australia.

China is 3 hours behind Australia	The UK is 11 hours behind Australia	Australia is 15 hours ahead of the USA
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Time In Australia: 4:20pm		
Time in China	Time in UK	Time in USA
Time In Australia: 5:40am		
Time in China	Time in UK	Time in USA
Time In Australia: 1:25pm		
Time in China	Time in UK	Time in USA
Time In Australia: 9:30am		
Time in China	Time in UK	Time in USA
Time In Australia: 11:23am		
Time in China	Time in UK	Time in USA

Time - Level 5 - Students will read and record and compare time in one-minute intervals.

Knowledge
Comprehension
Application
Analysis
Synthesis
Evaluation



Let's Try This Again



Progress To Synthesis

Name: _____

Synthesis

Using the table from the previous Analysis activity convert each time given to 24hour time. The first set has been started to help you.

Time In Australia: 4:20pm = ____ : ____		
Time in China	Time in UK	Time in USA
1:20pm = ____ : ____	5:20pm = ____ : ____	1:20am = ____ : ____
Time In Australia: 5:40am		
Time in China	Time in UK	Time in USA
Time In Australia: 1:25pm		
Time in China	Time in UK	Time in USA
Time In Australia: 9:30am		
Time in China	Time in UK	Time in USA
Time In Australia: 11:23am		
Time in China	Time in UK	Time in USA

Time - Level 5 - Students will read and record and compare time in one-minute intervals.

Knowledge
Comprehension
Application
Analysis
Synthesis
Evaluation



Let's Try This Again



Progress To Evaluation

Evaluation

The following questions and activities are provided as a starting point for fun discussions related to Time. During these conversations students will have an opportunity to use appropriate mathematical language in its correct context, to engage in reflection on the Time activities they have completed and to use logical reasoning to tie their in-class mathematics to its everyday context.



When is 24-hour time used rather than 12-hour time?



Why is 24-hour time used rather than 12-hour time?



Why do different places have different times?



Have a look at Coordinated Universal Time and how time changes across the globe.



Where is Greenwich and why is Mean Time measured from here?



Have students use their clocks to make an analogue time and a classmate can make the equivalent 24-hour time.



Show students an analogue time and in teams they can race to see who can make your time as a 24 hour time the quickest.

