

Overview

Within this challenge learners will explore three different mathematical concepts.

Learners will have the opportunity to:

- calculate times in different countries using a time zone map and a 24 hour clock.
- calculate duration of time in “real life” contexts, *e.g. length of a journey*.
- read, interpret and create timetables.

Practitioners may wish to use the support materials when exploring the numeracy and mathematics challenges.

These learning opportunities promote links with modern languages.



Mathematics experiences and outcomes explored

Having explored the need for rules, for the order of operations in number calculations, I can apply them correctly when solving simple problems.

MTH 2-03c

Other curriculum areas explored:

I can ask for help confidently using learned phrases and familiar language.

MLAN 2-04a

Responsibility of all:

I can use and interpret electronic and paper-based timetables and schedules to plan events and activities, and make time calculations as part of my planning.

MNU 2-10a

Themes across learning:

Global citizenship

Overview of learning

Possible prior experiences

Explain what is meant by Coordinated Universal Time (UTC), meridian line and international time zones.

Discuss how it can be daylight and night time in two different places, depending on where you are in the world.

Demonstrate how to use the 24 hour clock when making time zone calculations.

Demonstrate how to ask in French what time it would be in a different country.

Explain how arrival times are always given in that country's local time.

Demonstrate how to calculate the journey length using flight times and time zone map.

Demonstrate how to create a flight timetable.

Demonstrate how to ask in French at what time a flight arrives.

Challenges

Greenwich Mean Time (GMT) challenge

In this challenge learners will use Coordinated Universal Time (UTC) to compare the times in Francophone countries with Scotland.

Translating times challenge

In this challenge learners will translate questions and answers for time calculations from English into French, paying attention to the correct grammatical use of masculine, feminine and plural countries.

Flight times challenge

In this challenge learners will use timetables written in French to plan a journey, taking into account the time difference between countries when considering arrival and departure times.

Travel itinerary challenge

In this two-part challenge, learners will create timetables using world time zone maps. They will select countries, calculate arrival and departure times, check calculations and translate questions and answers into French.

Possible evidence

Discussion with partner and feedback
Individual whiteboard activity

Class discussion and feedback
Individual whiteboard activity

Class discussion and feedback
Individual whiteboard activity

Discussion with partner and feedback
Individual whiteboard activity