

MYSTERY TOURS – LEAD YOUR TOUR

The activities are designed for 60-minute lessons. You may need to adapt the materials for use in longer or shorter lessons.

Brief activity descriptions are provided for the pupils on the right-hand side of the screen. They can read all of this text, or they may prefer to read only the simplified Summary text.

INTRODUCTION

In this activity pupils lead their tour, directing their tour party and responding to issues that arise. Pupils should be encouraged to use the tour plan they devised in the previous activity but may need to modify their plans as the tour progresses in response to feedback.

As the tour proceeds, pupils will be presented with a variety of challenges which they must attempt to solve to keep their tour party satisfied. Each challenge is based on meeting the needs of different tour members and is represented by an algebraic or geometric problem.

This activity is mainly ICT-based.

OBJECTIVES

Pupils will:

- use mathematical problem solving skills in collaboration with each other
- calculate with fractions and percentages
- synthesise information in a variety of different formats
- solve a range of algebraic and geometric problems.

RESOURCES

- Teacher laptop or desktop computer (for demonstration only)
- Data projector (for demonstration only)
- Access to an ICT suite with enough computers for pupils to work in small groups
- Printed copies of the accompanying activity sheets
 - Tour Diary Sheet
 - Tour Results Sheet
 - Destination Profile Sheets (optional)
- Calculators (optional).

DELIVERING THE CASE STUDY

- The starter activity can be used to help reacquaint pupils with the data they used in the previous activity.
- The main activity can be used to consolidate and extend pupil understanding of a range of algebraic and geometric topics
- Pupils should be divided into the same small groups used in the previous activity to encourage appropriate levels of participation and discussion.
- Pupils will need their results from the previous activity to lead their tour.
- Teachers should ensure that the materials generated during this activity, e.g. each group's tour results, are kept safe as they will be required in the follow-up activity.

HOMEWORK SUGGESTIONS

Ask pupils to complete their Tour Diary reflecting on the outcomes of their tour and evaluating their performance during the activity.

Additionally, pupils could be asked to gather further information about the destinations they have visited on their tour, collecting pictures, maps and graphs for use in the next activity.