

Summer stretch

Want a challenge?

We would like to invite you to take part in our stretch and challenge extended project. If you complete this mission you will be entered into the school raffle and have the opportunity to be shortlisted for our Athena Awards Ceremony. The Athena Awards are a celebration of ... The project is optional and can be completed instead of the activities in the student guide.

Mission 1: Can you solve Lola's problem?

You will need to show us your calculations, including your answers and your workings out.

A charity has donated some food packs to the train station to help the homeless children. As the oldest child there, Lola is having to calculate how to distribute the food.

There are 15 'street rats' currently residing at the train station, including Lola.

Each day a person needs 3.5 units of carbohydrates, 7.275 units of protein, 4.55 units of vitamins and minerals and 10 units of water.

Lola has 1470 units of carbohydrates, 2955 units of protein, 2000 units of vitamins and minerals and 9000 units of water.

a.) If Lola fed all 15 of the 'street rats', meeting their daily nutrient requirement:

- How many days until she ran out of carbohydrates?
- How many days until she ran out of protein?
- How many days until she ran out of vitamins and minerals?
- How many days until she ran out of water?
- Therefore, how many days is she able to feed the group in total?

b.) If Lola only fed herself from the food packs, how many more years, months and days could she survive for? Calculate assuming that there are 28 days in every month.

c.) Imagine that the charity will top up the amount of food packs they will donate to the homeless children. If they did this and boosted each food group by 14%, how much longer could they all have food for?

Mission 2: Setting

Ele Fountain has written 'Lost' with a very strong sense of place. We get a real impression of the busy city, all the people rushing to-and-fro, the shops and food-sellers and the many children who are living on the street. The city in LOST is almost a character in the novel but the author does not name the city. Why do you think that is?

Activity: Descriptive writing – choose a place that is special to you. Without naming what or where it is, write or record a couple of paragraphs or a poem to describe spending five minutes in this place. How would you feel? What would you see?

Mission 3:

After Lola has been reunited with her father, she would feel very strongly about wanting to improve conditions for the people she met whilst living on the streets. She might even become the next Greta Thumberg!

Help Lola make a difference.

Read newspapers, watch the news and carry out some research to find out about a key issue raised in the book.

You might choose the issue of homelessness where you live. Many young people in the UK are homeless. Can you find out what this means? Are the children living on the street or are they housed in hostels and bed and breakfast accommodation?

You can record your findings in any way you wish. You could write a newspaper report, a persuasive speech or create a flier to communicate your findings.

You could even create a 3D model to illustrate something you have learnt about your chosen issue, film a news report, or maybe invent something to help improve the issue.

Get creative!

