

# NATIONAL CURRICULUM

## Subjects to Explore

### English Language

Ages 5 – 11 yrs (UK Key Stage 1 & 2)

- Write a thank you letter to the farmer telling him what you liked most about your day at the maze
- Dance and move to illustrate the emergence of a seed, and that seed growing into a tall corn plant.
- Write a poem using similes relating the human body to a corn plant

Ages 11 – 16 yrs (UK Key Stages 3 & 4)

By writing in a variety of styles, students will draw on their knowledge of different linguistic and literary forms:

- Write a story in which you are the growing corn plant. Describe the feelings that you may experience as you grow such as hunger, thirst, fear, the weather and soil conditions, feeling taller, etc.
- Write a journalistic review of your day at the maze, including information on the facilities, the staff, what there is to do and evaluating whether it was an enjoyable day or worth recommending to your readers.
- Write a tourist information guide for the Maize Maze you have visited including a short history, local map, facilities provided.

### Mathematics

Ages 5 – 11 yrs (UK Key Stages 1 & 2)

- Using the Math Maze on worksheet ..., find your way to the goal of the maze adding and subtracting the numbers out loud as you go.
- Using the math maze, find your way to the goal of the maze adding and subtracting as you go, making sure that you score when you arrive at the goal is zero
- Using the maze plan, calculate the length of the field
- Using the maze plan, calculate the width of the field
- Calculate the area of the field

### **Ages 11 – 16 yrs (UK Key Stages 3 & 4)**

- From the plan of the maze, calculate:
  - a) The area of the field
  - b) The length of the paths
  - c) The area of the paths
  - d) The ratio of paths to maize as a fraction, a decimal, a percentage and a ratio
- The plan can also be used as an aid to the understanding of scale and co-ordinates.

## **Science**

A trip to a maize maze provides a perfect opportunity to teach students about green plants as organisms and cover many of the topics specified in the National Curriculum:

### **Ages 5 – 11 yrs (UK Key Stages 1 & 2)**

- Plant a corn seed in a glass or see-through pot and watch it grow
- Discuss the elements that the seed needs to grow into a healthy plant
- Measure the height of the plant on a weekly basis and compare it to the height of the corn plants in your local maize maze.
- Find out how long it has taken the plant to reach the height in the maize maze
- Consider origins of food i.e. cornflakes, and the journey from "field to table"
- Invite the children to investigate and bring to school examples of corn as a food

### **Ages 11 – 14 yrs (UK Key Stage 3)**

- Nutrition and growth
- Photosynthesis
- Respiration
- Variation
- Inheritance & selective breeding leading to new corn varieties such as Super-sweet, etc.

### **Ages 14 – 16 yrs (UK Key Stage 4)**

- Scientific enquiry
- Plant Nutrition & photosynthesis
- Reproduction and Variation
- Hormones

### **Ages 11 – 16 yrs (UK Key Stages 3 & 4)**

- Take away a few corn cobs from the maze and draw them when you get back to the classroom
- Draw, paint or design the maze on a theme of your choice, e.g Wild West, Dinosaur, Space. What would it look like from above, what would it be made from and what features would you include.

## **Design Technology**

### **Ages 11 – 16 years (UK Key Stages 3 & 4)**

- Design & construct your own scale maze model – could be a mouse maze!
- Consider: materials, overall design icon from above, bridges and 3-Dimensional features, interactive keynote features
- Evaluate the materials and tools used.
- If you were designing a full-size maze attraction what would be the key considerations – materials, safety issues, etc.