

# Learning Opportunities and Curriculum Fit

## Learning Opportunities

**Little Inventors North 2030** provides great opportunities for children to develop their creative and problem solving skills.

### Learning objectives

- To understand that inventions are all around us, that invention is a way to create solutions to problems or challenges.
- To learn about sustainability and the challenges and opportunities of living in 2030.
- To identify potential problems/areas where an invention could be useful.
- To make hypotheses and evaluate their invention ideas.

### Learning outcomes

- To generate ideas for inventions.
- To demonstrate understanding of the sustainability challenges the future may bring.
- To demonstrate understanding that changes to the way we live can impact others as well as ourselves.
- To learn about what affects their community and develop strategies and skills needed to care for and improve it.
- To articulate and communicate their ideas in drawing, writing and speech for an audience, as well as plan and evaluate their writing.
- To start using scientific methodology through making predictions, planning and evaluating.

## Curriculum fit

By promoting creative thinking and problem-solving skills, the **Little inventors North 2030 challenge** offers many opportunities to link to several curriculum areas in elementary schools, in particular:

*continues over page*

## Science

Hypothesising, experimenting, evaluation based on results and drawing conclusions are all scientific skills which run through all key stages. Little Inventors North 2030 is a great way to invite your children to work and think scientifically in the context of sustainability and the future of scientific development. Children will have opportunities to:

- observe the world around them
- encounter more abstract ideas and begin to recognise how these ideas help them to understand and predict how the world operates
- recognise that scientific ideas change and develop over time.

## Art and design

Little Inventors North 2030 fully supports the art and design curriculum by encouraging children to produce creative work and explore their ideas using drawing and design. This resource offer children opportunities to:

- use drawing to develop and share their ideas, experiences and imagination
- develop techniques with creativity.

## Design and technology

Using creativity and imagination, Little Inventors North 2030 allows children to think freely about objects that could solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. children learn how to become resourceful and innovative. This resource offers children opportunities to:

- draw purposeful, appealing products for themselves and others
- develop criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals
- generate, develop, model and communicate ideas through annotated sketches.

## Literacy

Little Inventors North 2030 offers children opportunities to:

- write clearly, accurately and coherently, adapting their language and style in and for a range of contexts, purposes and audiences
- use discussion in order to learn.

## PSHE

Little Inventors North 2030 offers children opportunities within the core programme of study for Theme 3, Living in the wider world to consider:

- what improves and harms their local and natural and built environments and develop strategies and skills needed to care for these (including conserving energy)
- that they have responsibilities towards the environment.