

Learning Opportunities and Curriculum Fit

Learning Opportunities

Little Inventors provides great opportunities students 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 identify potential problems or areas where an invention could help reduce the amount of food we waste.
- To describe and evaluate their invention ideas.

Learning outcomes

- To know that wasting food also wastes money and adds to global warming, but can be largely avoided.
- To generate ideas for inventions that help people reduce wasted food.
- To articulate and communicate their ideas in drawing, writing and speech for an audience, as well as to plan and evaluate their writing.

Curriculum fit

Science

Students can base their invention ideas on observations of the world around them that present *opportunities for innovation*. They can:

- look for and identify patterns, similarities and differences
- classify and organise different materials
- use scientific language and illustrations to discuss, communicate and justify their ideas.

English and Literacy

Students can write both descriptively and persuasively. They can plan and evaluate their writing and *communicate their ideas in speech*. They can:

- 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
- elaborate and explain clearly their understanding and ideas.

Art and design

Students can produce creative work and explore their ideas using *drawing, design and optionally crafts*. They can:

- use drawing to develop and share their ideas, experiences and imagination
- optionally, use a range of materials creatively to design and make products
- analyse and evaluate their own work, and that of others.

Design and technology

Students can use their *observations and insights* to design innovative, functional, appealing products aimed at particular individuals or groups in a variety of situations. They can:

- generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams
- evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.