

# TECHNOLOGIES

## YEAR 7

### **Design Technology (Food) - "Healthy Snack Design"**

Embark on a flavorful journey delving into the art of healthy snacking! In this module, students dive into the realm of nutritious bites, guided by the principles of the Australian Guide to Healthy Eating (AGTHE). Through hands-on cooking sessions, interactive surveys, insightful KWL charts, strategic decision-making matrices, and lively discussions, students hone the skills needed to curate wholesome snack choices. Our mission? To cultivate a culture of wellness while unraveling the nuances of food design.

### **Design Technology (Food, Fibre and Production) – “Habitats & Horticulture”**

Step into the vibrant world of sustainable agriculture, where tiny heroes wield tremendous power! This unit invites students to explore the vital role of beneficial organisms in nurturing our agricultural ecosystems. From researching and selecting insect allies for horticultural small crops to crafting habitats tailor-made for home gardens, students embark on an experiential journey. Through this immersive odyssey, they uncover the intricate web of life sustaining our planet's food systems, fostering a deep appreciation for the unsung heroes of the soil.

### **Digital Technology – “Creative Coders”**

Students engage deeply with the foundational aspects of programming and data representation over the course of the term. They master the craft of designing efficient algorithms and user-friendly interfaces, guided by design thinking principles. This process sharpens their problem-solving skills as they iteratively develop solutions that adhere to specific functional requirements and constraints. Through hands-on experience in programming environments, students have the chance to thoroughly test, refine, and precisely implement their creative solutions.

### **Design Technology (Materials) – “Willful Wood Working”**

Students embark on a journey of woodworking mastery, integrating safety protocols, woodworking techniques, and project design and construction into a seamless progression. Beginning with a deep dive into safety practices, including the correct use of Personal Protective Equipment (PPE) and workshop machinery, students then transition to mastering essential woodworking techniques, from marking and cutting to assembly. Guided by principles of design and sustainability, students culminate their learning by applying their acquired skills to design, plan, and construct a wooden carryall project.