

# KidsGrow

## Garden links to learning

Purposeful

Smart

Connected

Fun

### Benefits to kids

Research shows a wide range of benefits when students create and care for their own gardens at school through a cross curriculum, hands-on approach to learning.



#### Knowledge and Understanding

e.g.  
Improved academic performance in Maths, English and Science.

#### Wellbeing and Health

e.g.  
Relaxation, outdoor exercise and freshly grown food.



#### Skills for the Future

e.g.  
Enhanced critical and creative thinking through real planning and doing.

#### Social Development

e.g.  
Teamwork and pride through authentic projects connecting to the community.

#### Environmental Stewardship

e.g.  
Passion, respect and care for the natural environment.

Every school a garden. Every child a gardener.  
Every plant a learning experience.

# The Ten Step Process

Stages of the garden      Steps in the process\*

## Research, Planning and Design

- STEP 1.**  
Organise your team and create a vision for your garden
- STEP 2.**  
Assess site and locate the best place for your garden
- STEP 3.**  
Create the garden design to scale



## Building and Planting the Garden

- STEP 4.**  
Measure and lay out the garden
- Step 5.**  
Build the garden structures
- STEP 6.**  
Test and prepare the soil
- Step 7.**  
Plant and label the garden



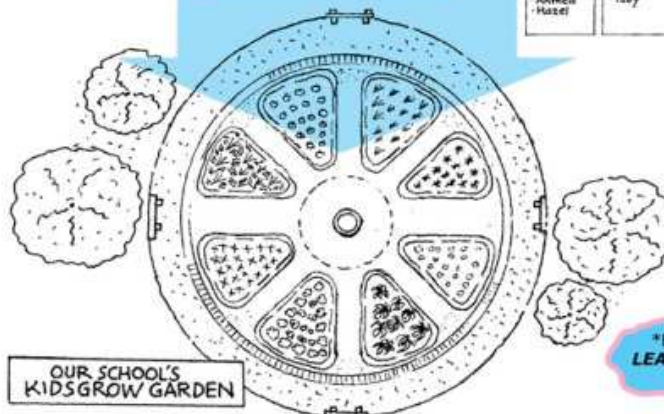
## Maintaining and Sustaining the Garden

- STEP 8.**  
Tend the garden and record the findings
- STEP 9.**  
Celebrate and share the garden
- STEP 10.**  
Keep your garden going and use it for more learning



This weeks Roster duties

PEST PATROL	WEEDING	ACTIERS	MULCHING	PHOTOGRAPHER
James Susan Ahmed Hazel	Robbie Elizabeth Toby	Jemma Jarrod	Adam Harisa Serdan Jamil	Grant Sam



\*Based on the successful **LEARNSCAPES PLANNING & DESIGN** process





## KidsGrow Gardening Links to Learning

### Interdisciplinary Learning and Cross Curriculum Links

- |   |   |   |  |   |
|---|---|---|--|---|
| <b>Designing and Making</b> <ul style="list-style-type: none"> <li>Designing a school garden</li> <li>Produce for enterprise</li> <li>Signage and displays</li> <li>Watering systems</li> </ul> | <b>Environmental Education</b> <ul style="list-style-type: none"> <li>Managing ecosystems</li> <li>Environmental issues</li> <li>Diversity and complexity</li> <li>Interdependence</li> <li>Biological webs</li> <li>Cycles and dynamic balance</li> <li>Sustainable practices</li> </ul> | <b>Communication</b> <ul style="list-style-type: none"> <li>Interviewing community members</li> <li>Substantive conversations</li> <li>Multiliteracies</li> <li>Collaborative decision making</li> <li>Sharing information</li> </ul> | <b>Thinking</b> <ul style="list-style-type: none"> <li>Reasoning in an orderly manner</li> <li>Parts of a complex whole</li> <li>Solving problems</li> </ul> | <b>Multicultural Education/LOTE/ESL</b> <ul style="list-style-type: none"> <li>Multilingual signage</li> <li>Cultural gardening practices</li> <li>Origins of plants</li> </ul> |
| <b>Using Technology</b> <ul style="list-style-type: none"> <li>Databases</li> <li>Spreadsheets</li> <li>Web research</li> <li>Digital photography</li> </ul>                                    |   |   | <b>Aboriginal Education</b> <ul style="list-style-type: none"> <li>Bush tucker and medicine plants</li> <li>Traditional craft plants</li> </ul>              | <b>Gender Equity</b> <ul style="list-style-type: none"> <li>Sharing roles</li> <li>Rotating jobs</li> </ul>   |

<b>Literacy</b> <ul style="list-style-type: none"> <li><b>Reading</b> <ul style="list-style-type: none"> <li>Research</li> <li>Seed packet directions</li> <li>Related fiction</li> <li>Work of classmates</li> </ul> </li> <li><b>Writing</b> <ul style="list-style-type: none"> <li>Information texts</li> <li>Research reports</li> <li>Journal entries</li> <li>Recording observations</li> <li>Creative works</li> <li>Letters of thanks</li> <li>Requests, invitations</li> </ul> </li> <li><b>Handwriting</b> <ul style="list-style-type: none"> <li>First and final drafts</li> </ul> </li> <li><b>Speaking</b> <ul style="list-style-type: none"> <li>Interviewing</li> <li>Expressing opinions</li> <li>Questioning</li> <li>Restating</li> <li>Summarising</li> </ul> </li> <li><b>Listening</b> <ul style="list-style-type: none"> <li>Following directions</li> <li>Understanding sequences</li> <li>Stories</li> </ul> </li> </ul>	<b>Numeracy</b> <ul style="list-style-type: none"> <li><b>Basic number operations</b> <ul style="list-style-type: none"> <li>Length and area</li> <li>Volume and capacity</li> <li>Weight and mass</li> </ul> </li> <li><b>Gathering and organizing data</b> <ul style="list-style-type: none"> <li>Tallying</li> <li>Graphing</li> <li>Databases</li> </ul> </li> <li><b>Time and space</b> <ul style="list-style-type: none"> <li>Area</li> <li>Volume</li> <li>Scale</li> <li>Position</li> <li>2-dimensional plans</li> <li>3-dimensional models</li> <li>Timelines</li> </ul> </li> <li><b>Working mathematically</b> <ul style="list-style-type: none"> <li>Applying strategies</li> <li>Reasoning</li> </ul> </li> </ul>	<b>Science</b> <ul style="list-style-type: none"> <li><b>Science skills</b> <ul style="list-style-type: none"> <li>Investigating</li> <li>Observing</li> <li>Recording</li> <li>Measuring</li> <li>Predicting</li> <li>Tasting</li> <li>Comparing</li> <li>Concluding</li> </ul> </li> <li><b>Earth and its Surroundings</b> <ul style="list-style-type: none"> <li>Weather</li> <li>Water cycle</li> <li>Soils and geology</li> </ul> </li> <li><b>Living Things</b> <ul style="list-style-type: none"> <li>Plant identification</li> <li>Plant growth</li> <li>Plant biology</li> <li>Needs of living things</li> <li>Life cycles</li> </ul> </li> </ul>	<b>Personal and Social</b> <ul style="list-style-type: none"> <li><b>Health</b> <ul style="list-style-type: none"> <li>Personal health choices</li> <li>Nutrition education</li> <li>Cooking with plant foods</li> </ul> </li> <li><b>Active Lifestyle</b> <ul style="list-style-type: none"> <li>Exercise</li> <li>Outdoor activity</li> </ul> </li> <li><b>Safe Living</b> <ul style="list-style-type: none"> <li>Lifting, carrying, digging</li> <li>Safety with tools</li> </ul> </li> <li><b>Personal Development</b> <ul style="list-style-type: none"> <li>Self esteem through success</li> </ul> </li> <li><b>Interpersonal Development</b> <ul style="list-style-type: none"> <li>Teamwork</li> <li>Co-operative learning</li> <li>Visiting garden businesses</li> </ul> </li> <li><b>Civics and Citizenship</b> <ul style="list-style-type: none"> <li>Developing a sense of community</li> <li>Roles, rights, responsibilities</li> <li>Stewardship</li> <li>Community service learning <ul style="list-style-type: none"> <li>Sharing produce</li> <li>Flowers for seniors</li> <li>Harvest celebration</li> <li>Displays and exhibits</li> </ul> </li> </ul> </li> </ul>	<b>Society and Environment</b> <ul style="list-style-type: none"> <li><b>Geographical knowledge</b> <ul style="list-style-type: none"> <li>Natural and built components</li> <li>School and local environment</li> </ul> </li> <li><b>Geospatial space</b> <ul style="list-style-type: none"> <li>Relationships with places</li> <li>Mapping school grounds</li> </ul> </li> <li><b>Historical perspectives</b> <ul style="list-style-type: none"> <li>History of gardening</li> <li>Timeline of school site</li> </ul> </li> <li><b>Reasoning and Interpretation</b> <ul style="list-style-type: none"> <li>Hobbies and leisure activities</li> <li>Past and present data</li> </ul> </li> <li><b>Economics</b> <ul style="list-style-type: none"> <li>Costing a garden enterprise</li> <li>Wise resource use</li> </ul> </li> </ul>	<b>Arts and Crafts</b> <ul style="list-style-type: none"> <li><b>Visual</b> <ul style="list-style-type: none"> <li>Painting and sketching</li> <li>Graphic symbols</li> <li>Illustrating</li> <li>Gift cards</li> </ul> </li> <li><b>Performance</b> <ul style="list-style-type: none"> <li>Singing</li> <li>Rhythms of gardening</li> <li>Instruments from vegetables</li> <li>Drama - role plays</li> <li>Celebration dance</li> </ul> </li> <li><b>Craft</b> <ul style="list-style-type: none"> <li>Vegetable dyes</li> <li>Vegetable printing</li> <li>Scarecrow construction</li> <li>Mosaic pavers</li> </ul> </li> </ul>
--	---	--	---	---	---

Research shows that involving students in gardening activities and natural settings in schools through collaborative, hands-on, cross-curriculum, student-centred learning can lead to:

- Bio-psychological benefits - enjoyment, relaxation and lower stress levels.
- Environmental benefits - stewardship and care of the natural environment.
- Developmental benefits - enhanced physical, cognitive and emotional development.
- Academic benefits - better performance on standard tests, higher grade averages. (in reading, writing, maths, science, social and personal studies)
- Personal and social benefits - improved attendance, improved behaviour, reduced playground accidents, reduced boredom, reduced bullying and vandalism.