



UrbSTEAM

Teaching STEAM through Urban
Garden Based Learning
in the kindergarten

Educational Material Module 2

Outdoor and garden based
education in preschool and
kindergarten



Co-funded by
the European Union

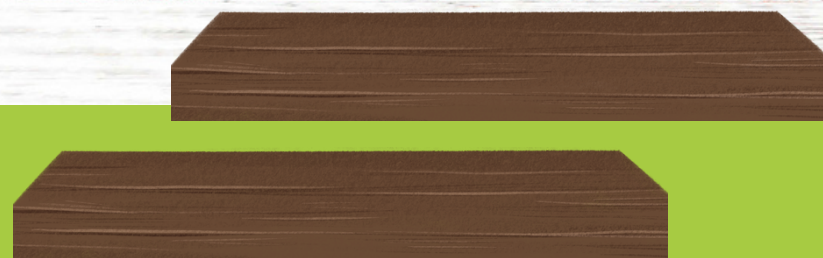


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Learning objective:

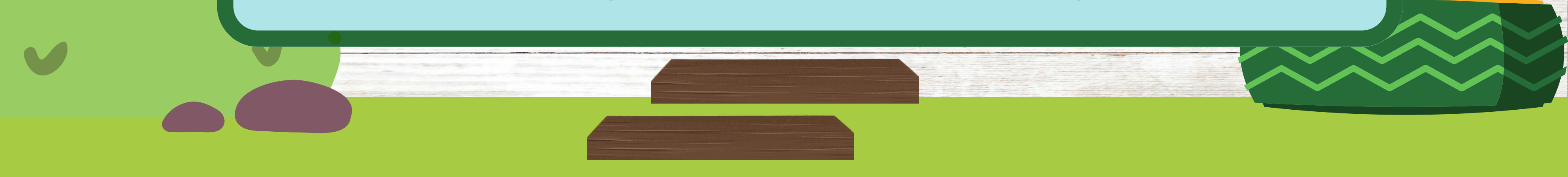
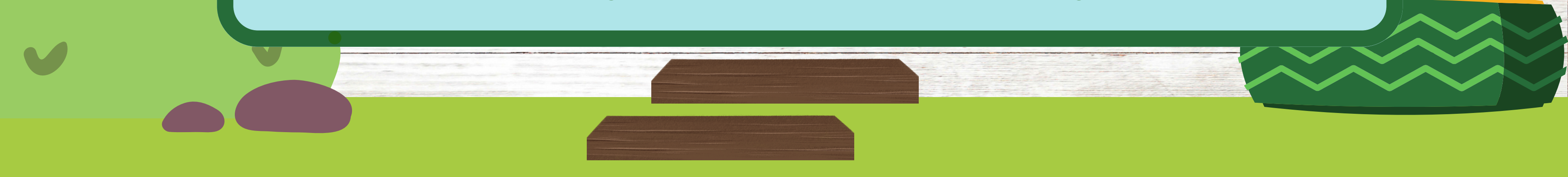
- Outdoor and garden-based learning
- Purposes of preschool garden
- Outdoor and garden-based learning in preschool





Expected Results

learners are expected to:

- learn about **benefits** of outdoor and garden-based learning
 - **get to know** about outdoor and garden-based learning in preschool and kindergarten
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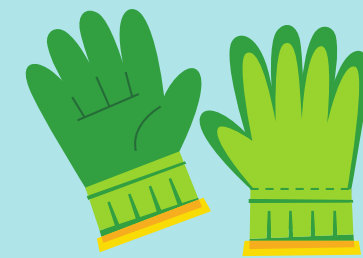
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“ . . . to open the child’s mind to his natural existence, develop his sense of responsibility and of self dependence, train him to respect the resources of the earth, teach him the obligations of citizenship, interest him sympathetically in the occupations of men, touch his relation to human life in general, and touch his imagination with the spiritual forces of the world”
(Bailey, 1909)

OUTDOOR AND GARDEN-BASED LEARNING



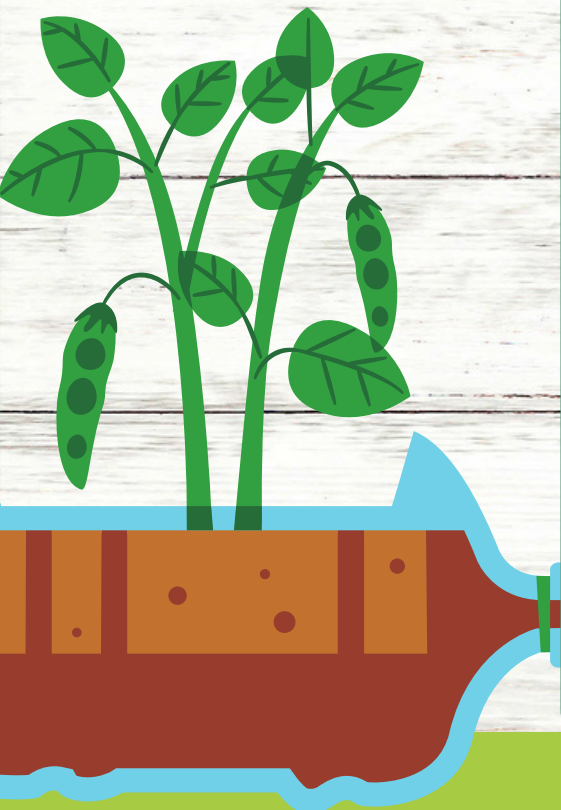
The philosophy behind garden-based education is actually an amalgamation of the philosophies behind experiential education, ecological literacy and environmental awareness, and agricultural literacy.



John Amos Comenius stated “A school garden should be connected with every school, where children can have the opportunity for leisurely gazing upon trees, flowers and herbs, and are taught to appreciate them”.



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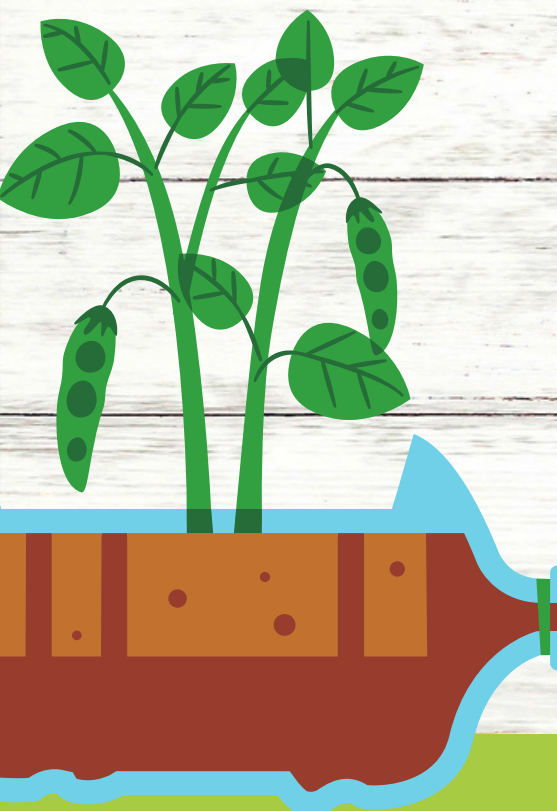
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Garden-based learning offers a context for integrated learning. An integrated curriculum is often associated with real-life problems in contrast with a traditional subject-based curriculum. This provides a vehicle for higher order thinking as children are challenged to move beyond memorization, to see patterns and relationships and pursue a topic in depth.

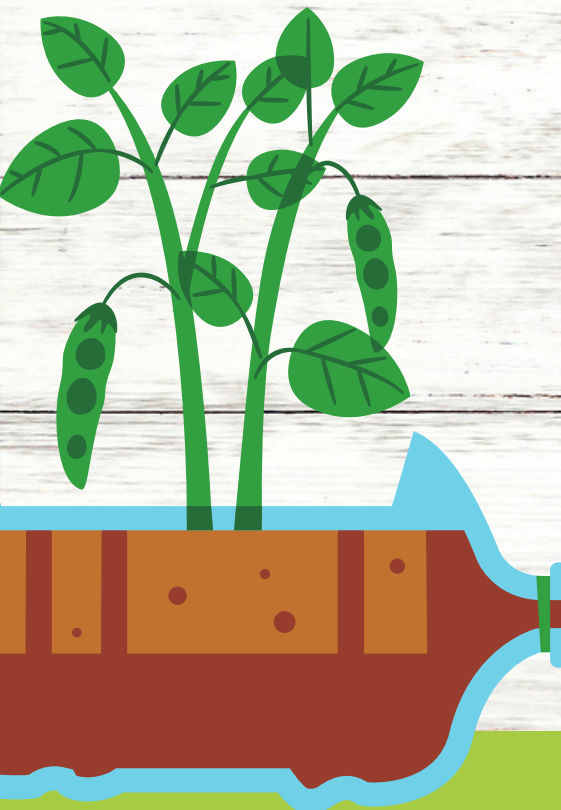
They are engaged in constructing knowledge rather than accumulating information and they also develop analysis and synthesis skills.





PURPOSES OF PRESCHOOL GARDEN

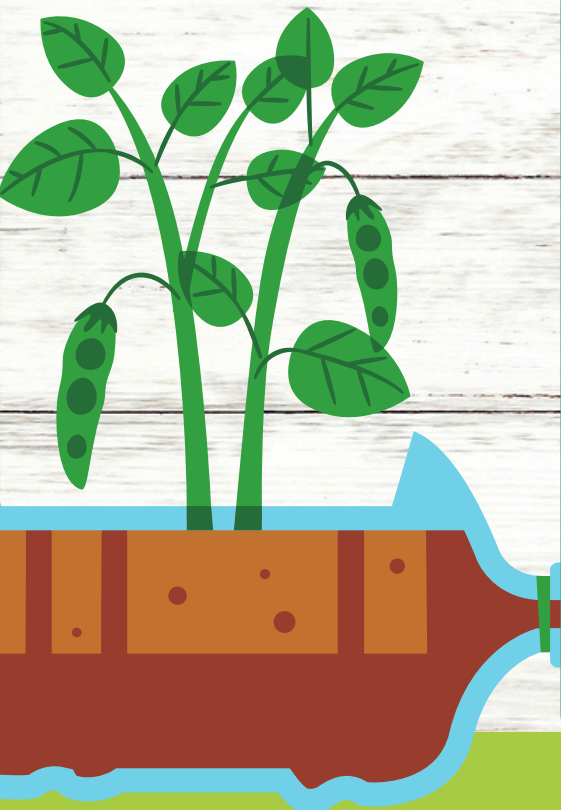
- 🐛 to support core academic training, particularly in science and math
- 🐛 to add a sense of excitement, adventure, emotional impact and aesthetic appreciation to learning
- 🐛 to teach basic skills and vocational competencies
- 🐛 to teach about food and fiber production
- 🐛 to teach ecological literacy and/or environmental education
- 🐛 to teach sustainable development
- 🐛 to improve nutrition, diet and health

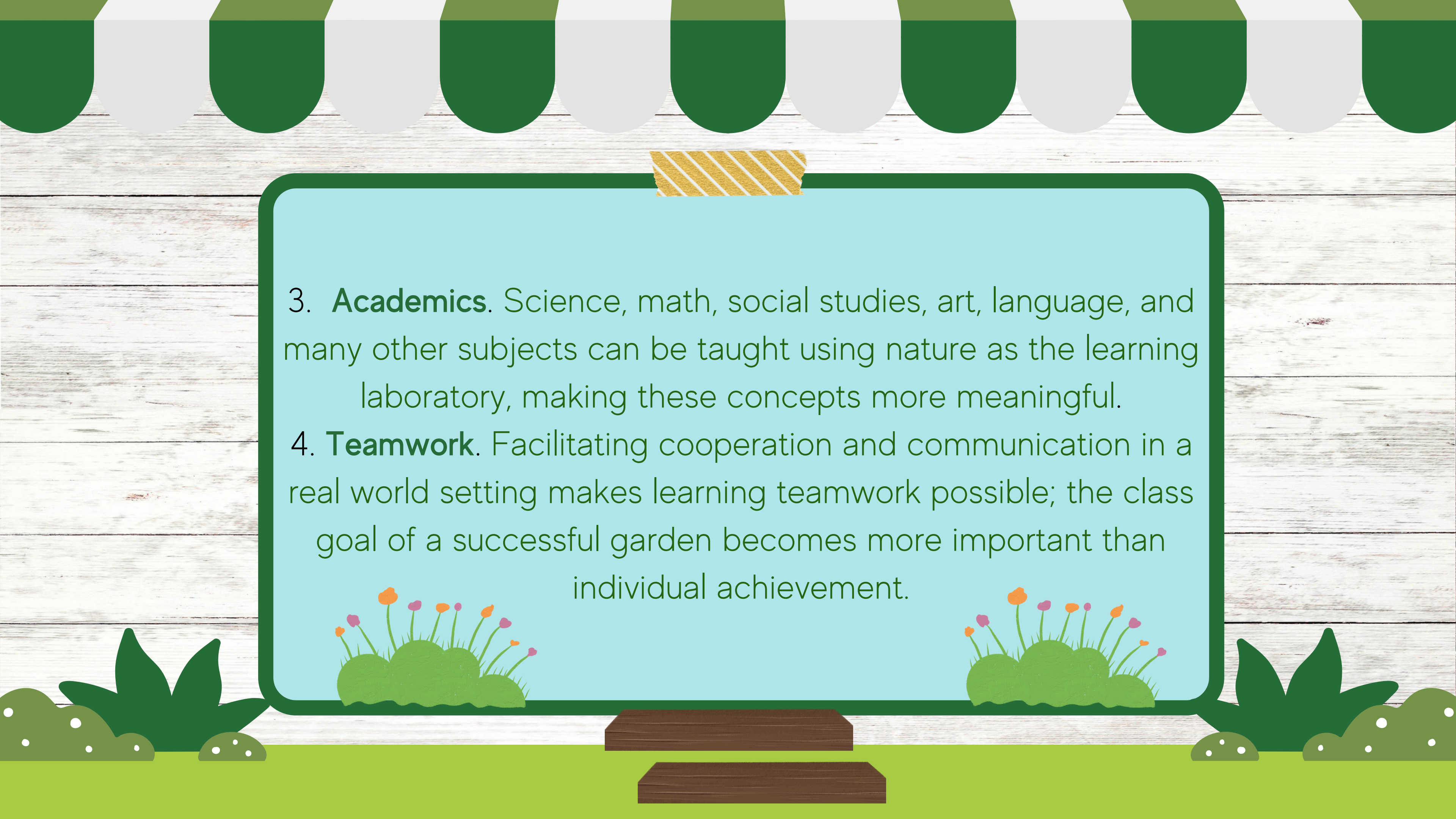



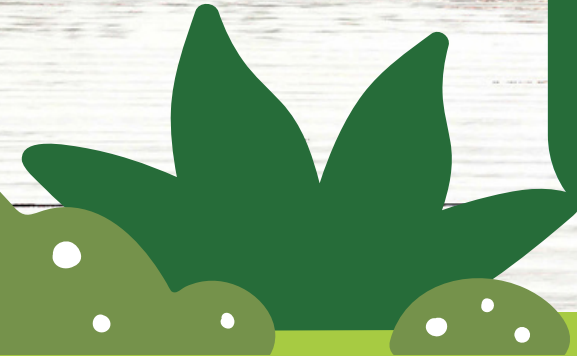






Priscilla Logan, educational consultant and permaculture instructor listed four reasons for using gardens as a teaching method:

1. **High retention rate.** When children work in gardens 90 percent of their experience is classified as hands-on.
2. **Empowerment.** A connection to the earth gives students a sense of achievement and motivation.

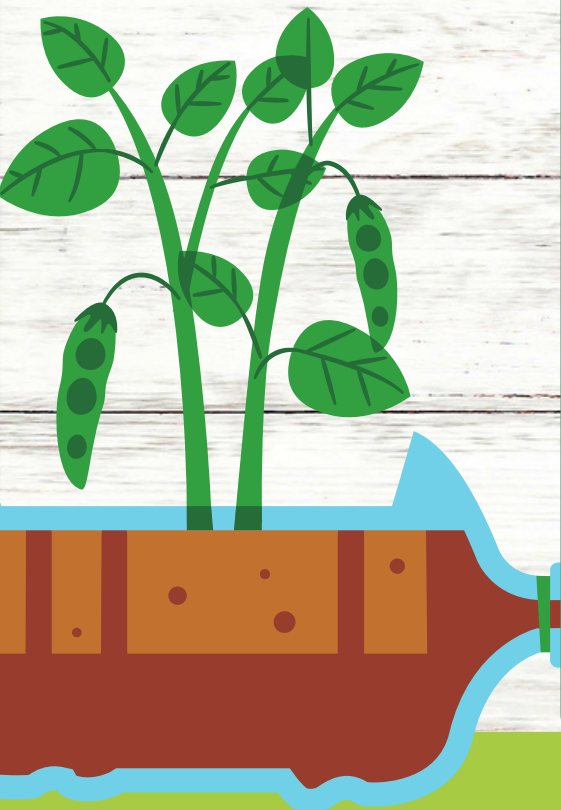


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3. **Academics.** Science, math, social studies, art, language, and many other subjects can be taught using nature as the learning laboratory, making these concepts more meaningful.
4. **Teamwork.** Facilitating cooperation and communication in a real world setting makes learning teamwork possible; the class goal of a successful garden becomes more important than individual achievement.
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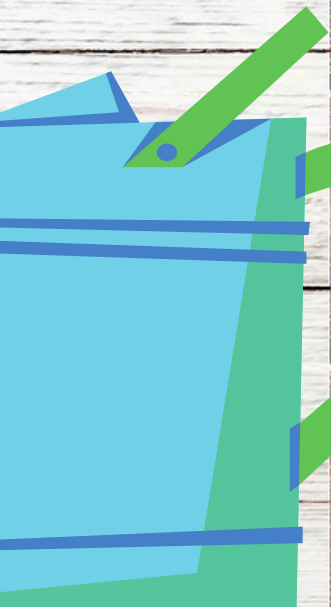
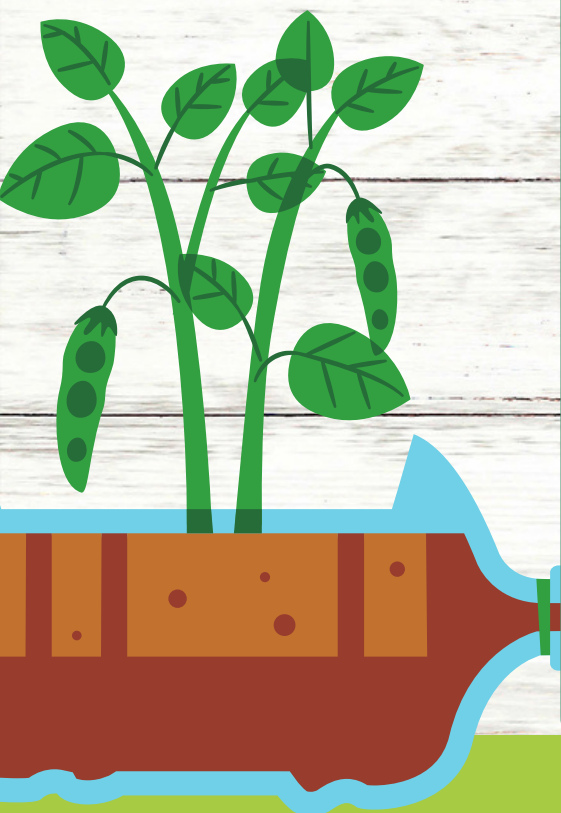
OUTDOOR AND GARDEN-BASED LEARNING IN PRESCHOOL

The life skills that a child learns in kindergarten in a loving and pleasant way are essential as a foundation for his future experiences as a capable and responsible adult.

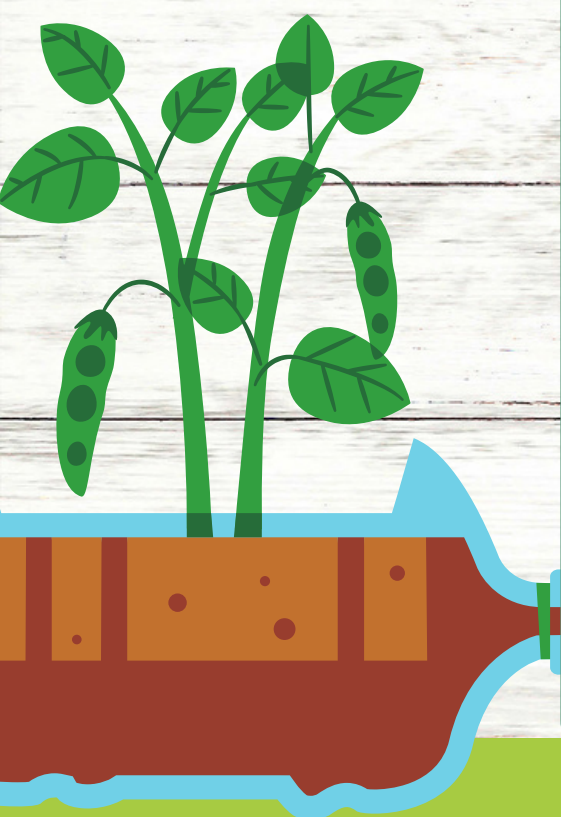


OUTDOOR AND GARDEN-BASED LEARNING IN PRESCHOOL

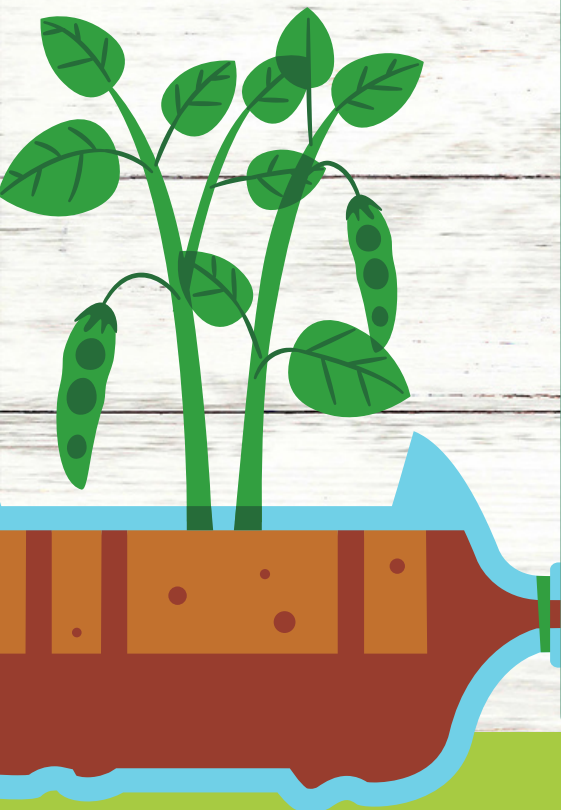
Harvesting herbs



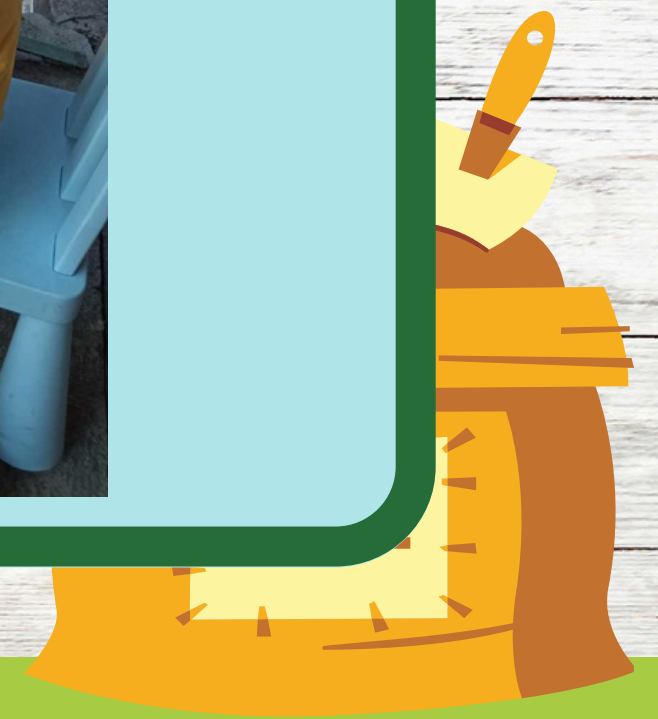
after harvesting the herbs, children dried the herbs and after that the tea bags will be made



The garden of the gnomes
(the smallest urban garden)

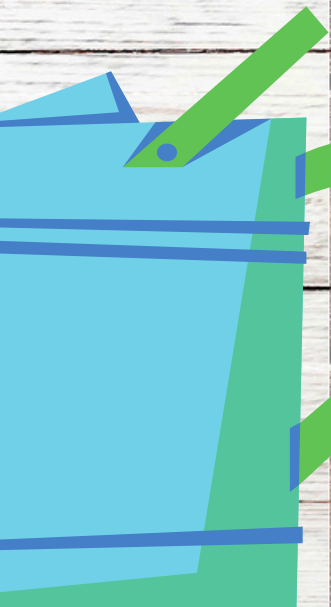
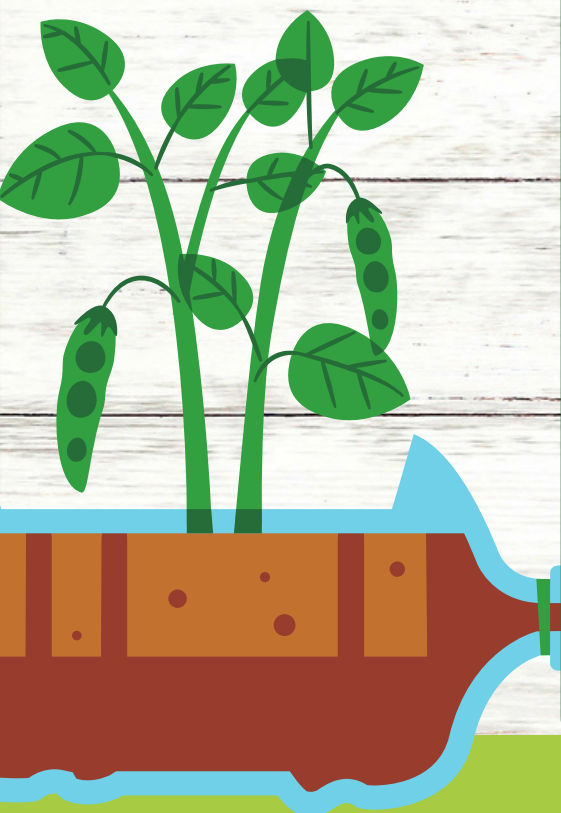


the children added a decorative gourd (gnome house), stairs and wooden house to the already planted plants



Planting vegetables (pepper)

It is very useful for children to see that they can create something new, alive



Harvesting of olives

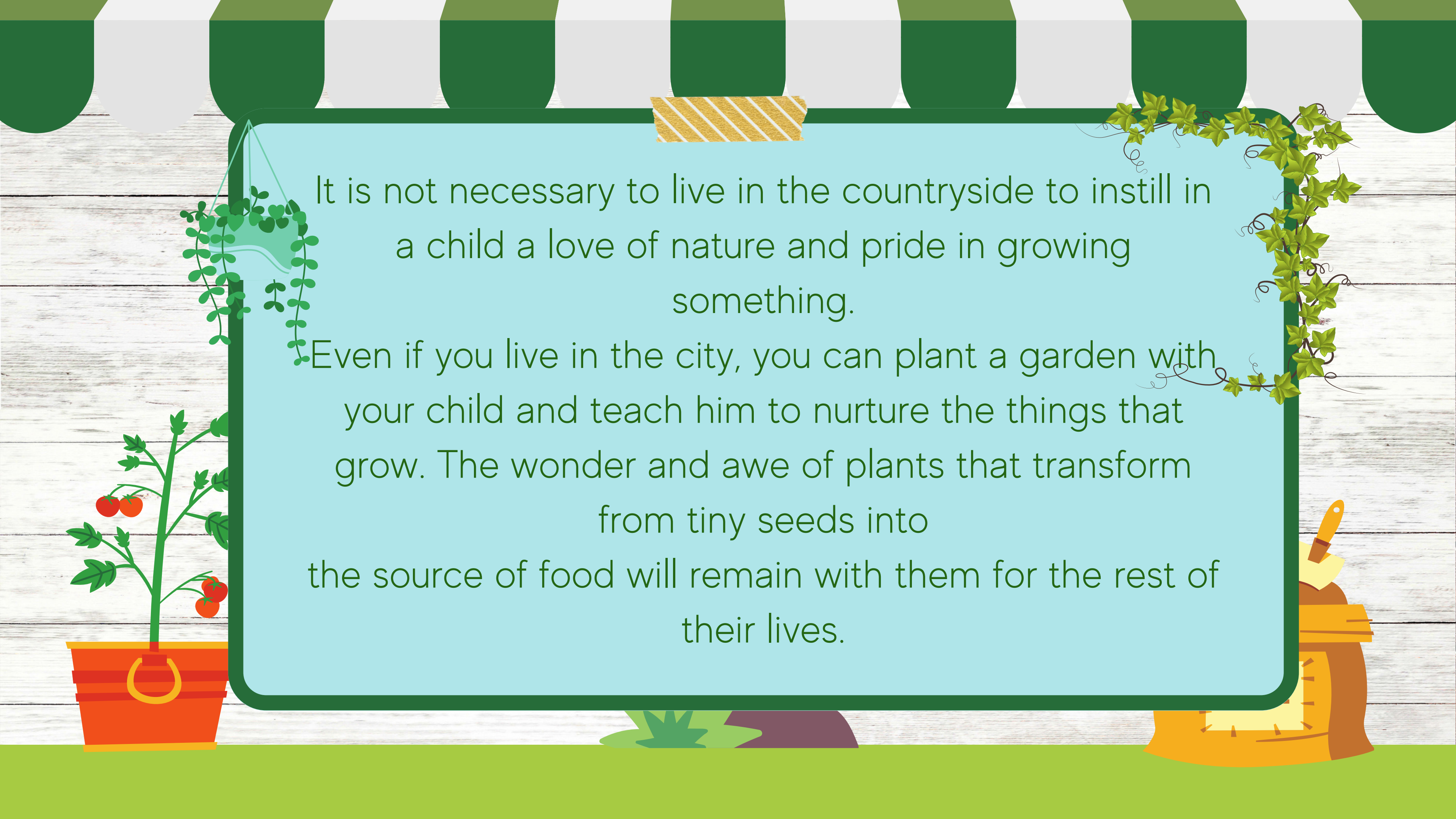


It is important for the child to be surrounded by a sense of satisfaction and respect for work which it contributed to. Allowing the child to participate in real and practical work, so and by working in the garden, taking care of the plants, the child gains satisfaction and a sense of purpose, that he is important and required community member.



From the garden to the table (salad)





It is not necessary to live in the countryside to instill in a child a love of nature and pride in growing something.

Even if you live in the city, you can plant a garden with your child and teach him to nurture the things that grow. The wonder and awe of plants that transform from tiny seeds into the source of food will remain with them for the rest of their lives.

REFERENCES

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Thank for your attention

