



University of California

Agriculture and Natural Resources | 4-H Youth Development Program

4-H Members Name: _____ **Club:** _____

GARDENING - Level 1

The Explorer level is the most basic of all levels. The youth begins to explore the boundaries of the project area, touching on many skills and knowledge areas that will be expanded later.

Date **Initial**

- ___ ___ 1. Start a small Garden.
- ___ ___ 2. Start at least three of your plants from seed.
- ___ ___ 3. Name the three layers of soil.
- ___ ___ 4. Name the particles that make up the three layers of soil.
- ___ ___ 5. Name three root vegetables and tell what makes them a root.
- ___ ___ 6. Knot the life cycle of a plant starting with seed and ending with mature plant.
- ___ ___ 7. Explain the basics of photosynthesis.
- ___ ___ 8. Name the male and female part of a flower.
- ___ ___ 9. Discuss why air, water, and light are important to your plants.
- ___ ___ 10. Name two pros of a chemical pesticide.
- ___ ___ 11. Name two cons of a chemical pesticide.
- ___ ___ 12. Find and use an organic way of fighting insect pest.
- ___ ___ 13. Make a poster with something to do with gardening.
- ___ ___ 14. Give a demonstration on a related topic at County Presentation Day.
- ___ ___ 15. Learn about plant nutrition.
- ___ ___ 16. Describe the relationships between plants and animals.
- ___ ___ 17. Describe the difference between succulents and cacti.
- ___ ___ 18. Start a plant shoot in water and watch it root.
- ___ ___ 19. Plant a potted succulent garden or an herb garden.
- ___ ___ 20. Explain the following terms: botany, botanist, propagation, eye, monocot, dicot.

Project Leader's Signature of Completion: _____ Date: _____

4-H Program Representative Approval: _____ Date: _____

COMMENTS: _____



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GARDENING - Level 2

The Producer level builds and expands on the knowledge and skills learned in level 1- Explorer.

Date Initial

- ____ ____ 1. Name the parts of a plant.
- ____ ____ 2. Name four plant growth factors.
- ____ ____ 3. What effect do these four growth factors have on the plant.
- ____ ____ 4. Add four more types of plants to your garden.
- ____ ____ 5. Explain the purpose of the cotyledon(s).
- ____ ____ 6. Why are diseases a problem in growing plants?
- ____ ____ 7. Explain what is meant by perfect and imperfect flowers.
- ____ ____ 8. Collect seeds of vegetables, field crops, flowers, shrubs and trees.
- ____ ____ 9. Mount and label the seed you have collected.
- ____ ____ 10. Experiment with two types of fertilizer, and tell which you prefer and why.
- ____ ____ 11. Explain in what way animals and plants tend to balance each other in nature.
- ____ ____ 12. Explain at least five ways plants can reproduce.
- ____ ____ 13. Learn how to make "recycle" pots using newspaper, toilet paper rolls, etc.
- ____ ____ 14. Plant some seeds for you summer vegetable garden in your recycled pots.
- ____ ____ 15. Plant these seedlings in your garden.
- ____ ____ 16. Collect and enter at least five of your home grown vegetables in the fair.
- ____ ____ 17. Visit a grocery store and record the different varieties of the same fruit or vegetable offered. (Example: red, yellow, eating, cooking)
- ____ ____ 18. Make a poster having something to do with gardening. Then enter it in the fair or talk about your poster in front of a group.
- ____ ____ 19. Give a demonstration at Presentation Day on a related topic.
- ____ ____ 20. Cook with your vegetables.
- ____ ____ 21. Give a report on your summer garden at your next meeting.

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GARDENING - Level 3

The Consumer level takes the member beyond the immediate project, out into the community, as they explore the project area in depth.

Date Initial

- ____ 1. List four types of plant Diseases and tell how to control them.
- ____ 2. Name parts of the flower and tell their function.
- ____ 3. Cross breed a plant (example: crossing a pumpkin with a spaghetti Squash.)
- ____ 4. Try propagation by rhizomes or stolons and then discuss it.
- ____ 5. Explain in your own words how fertilizer helps to grow plants.
- ____ 6. Write 300 words about plant growth factors or destruction of plants by animals.
- ____ 7. Have your soil tested and see what needs to be improved.
- ____ 8. Keep a list of cash expenses, time and labor charges. At the end of the growing season compare your crop yield to your expenses.
- ____ 9. Try growing a vegetable garden that includes peas, potatoes, carrots, onions, etc.
- ____ 10. Give some of your produce to another family or friend.
- ____ 11. Enter your produce in the fair.
- ____ 12. Try growing a plant, like an avocado, nectarine, apple, peach, etc. from a seed.
- ____ 13. Plant ivy or another vine using a trellis; keep the plant trained and trimmed to the trellis.
- ____ 14. Give a demonstration at Presentation Day.

Project Leader's Signature of Completion: _____ Date: _____

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