

4-H Members Name: _____

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: _____

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

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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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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.

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