

Gardening

Name: _____ Club: _____

Date

Leader

Guidelines for Project Proficiency Award

Initials

BEGINNING

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. Know 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 pests. _____
13. Make a poster with something to do with gardening. Then enter It in the fair or talk about your poster in front of a group. _____
14. Give a demonstration at County Field Day. _____

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INTERMEDIATE

1. Name 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. Save seeds from fruit of tomato, apples, etc. _____
9. Mount and label the seed you have collected. _____
10. Experiment with at least two types of fertilizer, then tell which you prefer and why. _____
11. Explain in what way animals and plants tend to balance each other in nature. _____
12. Collect and enter at least five of your home grown vegetables in a fair. _____
13. Visit a grocery store and record the different varieties of the same fruit or vegetable offered (example: red, yellow eating, cooking). _____
14. 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. _____
15. Give a demonstration at County Field Day. _____

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ADVANCED

1. List four types of plant diseases and tell how to control them. _____
2. Name parts of the flower and tell their functions. _____
3. Explain sexual and asexual reproduction of a plant. _____
4. Cross breed a plant (example: crossing a pumpkin with a spaghetti squash). _____
5. Try propagation by rhizomes or stolons and then discuss it. _____
6. Explain in your own words how fertilizer helps to grow plants. _____
7. Write 300 words about plant growth factors or destruction of plants by animals. _____
8. Have your soil tested and see what needs to be improved. _____
9. Keep a list of cash expenses, time and labor charges. At the end of the growing season compare your crop yield to your expenses. _____
10. Give a demonstration at County Field Day. _____

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