4-H Garden and Environment Resources

Easy to borrow - For use in the classroom or in after-school settings

Junior Master Gardener Curricula: http://jmgkids.us/

Level One: 3rd-5th Grades

Teacher/Leaders Guide and Student Handbook

“Ever suck a bug or make mud pies to evaluate soil texture? The JMG teacher/leader guide provides teachers with the tools to teach the world of gardening with eight chapters of novel, “hands-on” activities for grades 3 – 5. The program includes a study of life skills and career exploration then culminates the JMG experience with service learning projects and recognizes children’s efforts with a certification as a Junior Master Gardener.”

Health and Nutrition from the Garden

“n this first unit of the Golden Ray Series, children are motivated to eat the fruits of their labor in their study of Health and Nutrition from the Garden. This imaginative curriculum teaches children that growing and eating nutritious fruits and vegetables reaps its own rewards.”

Literature in the Garden

“Cultivate a connection to children’s literature gardening with this award-winning curriculum. You’ll be engaging children through powerful garden and ecology-themed children’s books to inspire learning through outdoor activities, creative expression and open exploration. Dozens of hands-on math, science and language-based activities encourage leadership development, individual responsibility, community involvement, and the development of critical thinking skills.”

Wildlife Gardener

“The combined resources of the National Wildlife Federation and the Junior Master Gardener Program along with the valuable input from pilot teachers and students across the country have helped to shape Wildlife Gardener into an integrated, engaging, and one-of-a-kind experience for kids.”

Level Two: 6th-8th Grades

Operation Thistle

Plant Growth & Development

“JMG Level Two combines Teacher/Leader Guide and reproducible pages of independent student “handbook” activities into a single book. This premier program encourages youths to take part in group learning experiences and service projects in their community. In the first module of the JMG Level Two curricula, middle school and junior-high youths in an investigate of Plant Growth & Development while engaging them in an urgent mission to defeat the evil Dr. Thistle. Students will work as a group to complete lessons in each of the 8 learning concepts then work independently to complete activities found within the mission briefs & mission option pages. By completing these missions, students help foil the twisted plans of Thistle and his menacing gang while reinforcing concepts learned in the group setting.”
**Junior Master Gardener Resources continued**

**Operation W.A.T.E.R.**

*Water and the Earth’s Resources*

**Soils and Water**

“The second module of the Junior Master Gardener Level 2 curricula is here! This module of this JMG Level Two (grades 6-8) allows students to participate in novel, hands-on activities focusing on Soil and Water concepts. Using Operation W.A.T.E.R.: Dr. Thistle Goes Underground, students in grades six through eight can investigate a new mystery while they learn important concepts about soil and water. Topics include: soil texture, aquifers, watersheds, wetlands, soil nutrients, the water cycle, soil improvement, soil structure, and water & soil conservation”

**Ohio State 4-H Plant Identification Learning Lab Kit :**

[www.ohio4h.org/projects-publications/learning-lab-kits](http://www.ohio4h.org/projects-publications/learning-lab-kits)

Includes lessons on:

- GENERAL CHARACTERISTICS: plant habit, shape, size, and texture
- BARK: bark types and images
- STEMS: stem anatomy, types and images
- LEAVES: leaf anatomy, types, and images
- FLOWERS: flower anatomy, types, and images
- FRUIT: fruit types and images
- BUDS: identification of scales
- BUD AND LEAF ARRANGEMENT: practice activities

And Features:

- Durable posters, pictures, charts, and task cards are printed on bright cover stock with heavy-duty lamination. Easy to write on and erase!
- ID tags are printed on polystyrene and come with Velcro dots, making learning tactile and fun.
- Includes heavy-duty, plastic bags and printed adhesive labels for easy organization.
- The Educator’s Manual includes 12 lesson plans accompanied by a set of 42 color quizzing cards.
- The Educator’s Resource Materials Set which contains reproducible masters for most of the kit components.

**Many National 4-H Curricula in Environment and Outdoor Education:** [www.4-hmall.org](http://www.4-hmall.org)

- Butterflies
- Forestry
- Amphibians
- Entomology
- Science Discovery
- Afterschool Agriculture
- Gardening
- Exploring Your Environment
- Fishing
- Backyards and Beyond
- Wind Energy
- Geospatial
- Outdoor Adventures
- Water Conservation
- Soil to Seed (coming soon)