







JMG Updates!

Partnerships:

- Borlaug Institute Intl. Agriculture
- American Horticultural Society
- Nursery/Landscape Associations
- •Keep America Beautiful
- •State Departments of Agriculture & USDA
- •State Master Gardener Programs
- •National 4-H Program



Our Mission: Growing good kids by igniting a passion for learning, success, and service through a unique gardening education.

Igniting a passion for learning

"It enhances the student and teacher learning process...serves as a

catalyst for student interest in science."

JMG Group leader response National JMG Leader Survey



Igniting a passion for success

For *all* students



The JMG program currently serves students in ool settings with over











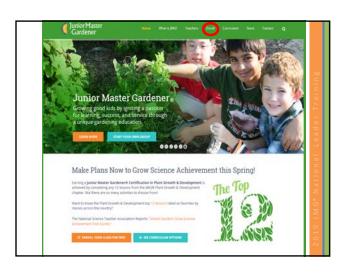
Dream Big! If you are not the lead dog, the scenery never changes! Together, we can all make the commitment

and leave a legacy growing good kids!

























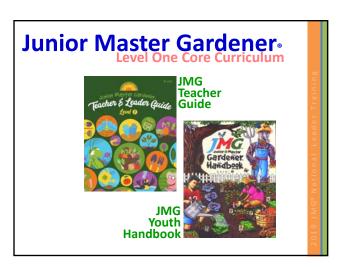


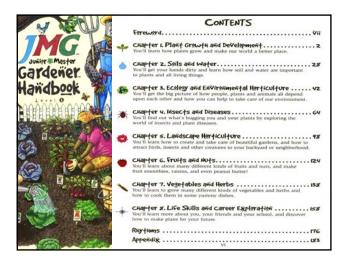












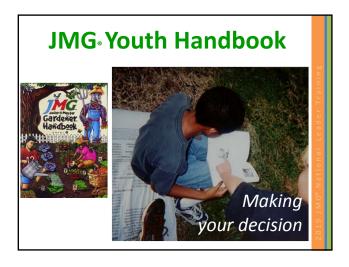


The JMG® Teacher/Leader's Guide

- Introduction and management guide
- Chapter group activities
- Community Service Projects/Leadership
- Helpful appendices

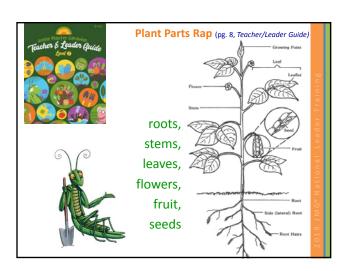


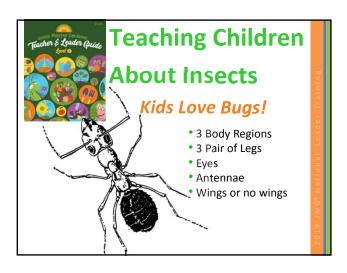




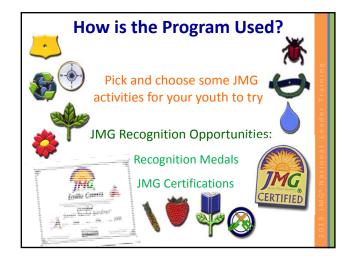






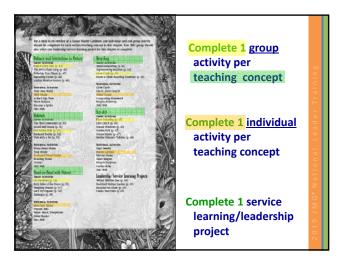






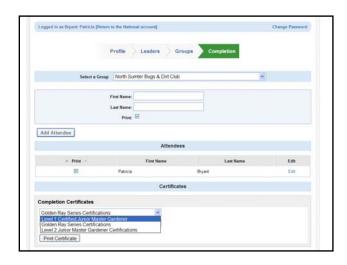




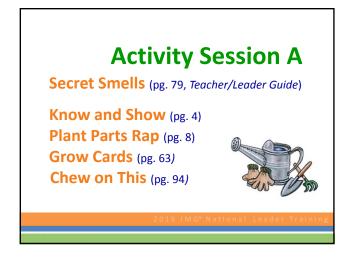


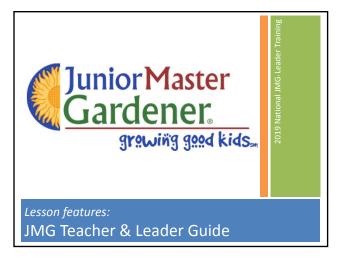


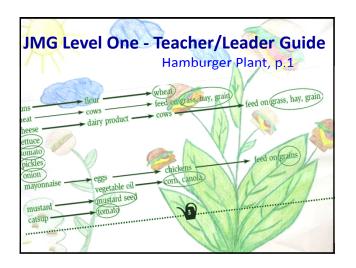


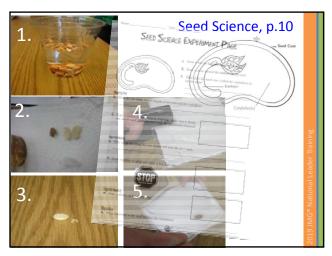


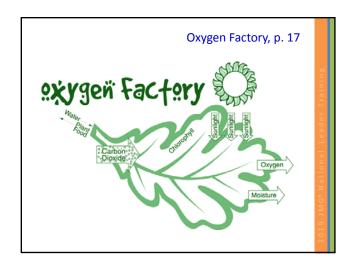






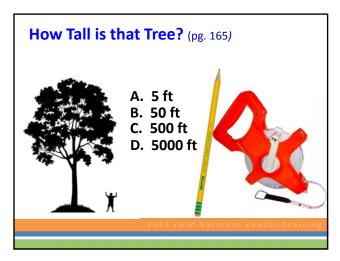




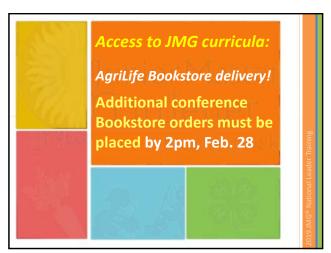














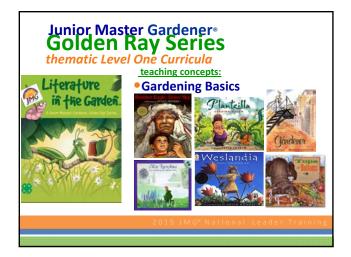


















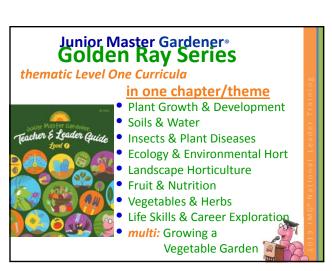












Activity Session 2

Cookie Key, Wildlife Gardener (pg. 82)

Overhead Roots, Lit in the Garden (pg. 113)

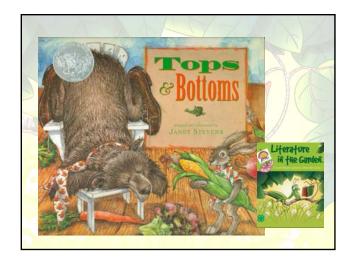
The Great Cover Up, Wildlife Gardener (pg. 88)

Monster Flowers, Lit in the Garden (pg. 23)

Carnivorous Kid Plants, Lit in the Garden (pg. 33)

2019 JMG® National Leader Trainin



































National Interest

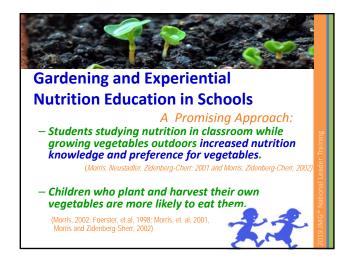
- USDA Farm to Cafeteria
- Increase in sales of vegetable transplants through nurseries
- Concept of "local-vores"
- Organically grown
- Food labeling
- Personal relationship with food
- Food as health







2007 issue of Hort Technology Studies specifically examining the benefits of students participating in JMG Curricula: "Qualitative data also indicated that the students enjoyed the program, shared what they learned with others, and wanted to participate in more JMG and gardening type activities." An Evaluation of the Junior Master Gardener Program in Third Grade Classrooms "... students in the experimental group did significantly increase their overall life skills scores." Growing Minds: The Effects of a One-year School Garden Program on Six Constructs of Life Skills of Elementary School Children





Indiana State-wide *Eat Your Way to Better Health* program

- Conducted and evaluated for 3 years
- Used JMG Curricula
- Youth higher healthy food choice selfefficacy
- Higher variety of fruit and vegetable consumption
- Family fruit and vegetable consumption was related to youth fruit and vegetable consumption
- Suggested that future program offering should include more parental/guardian involvement

Kararo, Matthew, K. Orvis, and N. Knoblock. 2016. Eat Your Way to Better Health: Evaluating a Garden-based Nutrition Program for Youth. HortTechnology 26(5): 663-668.

http://www.cfs.purdue.edu/extension/food_health/nutrition/better_health.html

Summary of key research areas:

Personal, social, physical, and moral development including self-concept, self-esteem, and motivation (Bowker & Tearle, 2007; Dirks & Orvis, 2005; Hendren, 1998; O'Brien & Shoemaker, 2006; Robinson & Zajicek, 2005; Sheffield, 1992; Simone, 2003)

Positive environmental attitude and empathy (Berenguer, 2007; Dirks & Orvis, 2005; Skelly & Zajicek, 1998; Waliczek & Zajicek, 1999)

Increased food literacy and healthy eating habits (Canaris, 1995; Koch, Waliczek, & Zajicek, 2006; Lineberger & Zajicek, 2000; Morris, Neustadter, & Zidenberg-Cherr, 2001; Parmer, Salisbury-Glennon, Shannon, & Struempler, 2009; P.J. Morgan et al., 2010)

Summary of key research areas:

School bonding, parental involvement, and formation of community (Brink & Yost, 2004; Brunotts, 1998; Cutter-Mackenzie, 2009; Mayer-Smith, Bartosh, & Peterat, 2009; Waliczek, Logan, & Zajicek, 2003) (p. 212).

Curricula connections made with school gardens enhanced academic achievement (Berezowitz, Yoder & Schoeller, 2015; Williams and Dixon, 2013)

Extension professionals and volunteers support through providing horticulture, nutrition, food safety and instruction (Black, Haynes, Schrock, Duerfeldt, & Litchfield, 2016; Dzubak, Shaw, Strobbehn & Naeve, 2016)



Journal of Agricultural Education, 59(2), 143-166 https://doi.org/10.5032/jae.2018.02143 Journal of Agricultural Education 143 Volume 59, Issue 2, 2018 Outcome Framework for School Garden Program Development and Evaluation: A Delphi Approach John M. Diaz1, Laura A. Warner2 & Susan T. Webb3

Development & evaluation programs to optimize impact and sustainability

- Delphi technique solicit, collate, and direct responses to achieve consensus among group of experts.
- Identify the most meaningful outcomes (short, medium and long term)
- Develop comprehensive set of indicators and integrate needs into framework
- 3 rounds of questions/responses from 74 experts all across USA
- Teachers- all levels, university/Extension, state agency, non-profit, volunteer

- Short term school gardens should increase knowledge of food systems of healthy eating while nurturing a love of gardening among students
- Medium-term school gardens should promote connection to nature, more engaged students, and sharing of gardening information
- Long-term school gardens should result in better outdoor environments improved access to healthy produce and sustained school gardening programs



Information from this article can assist with components to maximize outcomes, create best practices, when and how to evaluate, framework to assist with grant writing and build sustainable programs.



Resources for Research

www.jmgkids.us/research



