Spring Webinar Series
2 P.M. CST

EXTENDING KNOWLEDGE ➔ CHANGING LIVES

NDSU Extension
Upcoming Webinars

• March 4, 2020 -- Pressure Cooking and Canning: New (and Old) Ways to Cook and Preserve Vegetables
  – Julie Garden-Robinson, NDSU Extension food and nutrition specialist

• March 11, 2020 -- Staying Safe in the Sun: Insight from a Skin Cancer Survivor
  – Brian Halvorson, Teacher, Grand Forks Public Schools
Zoom Controls
Please Complete the Survey

• Please complete the short online survey that will be emailed to you after today’s webinar. It will take just a couple minutes!

• Be sure to sign up for an opportunity to win a prize in the drawing. After submitting the survey, a form to fill out with your name/address will appear.

• Acknowledgement: This project was supported by the U.S. Department of Agriculture’s (USDA) Agricultural Marketing Service through grant 14-SCBGP-ND-0038.
Building a Terrarium

Esther E. McGinnis
NDSU Extension Horticulturist/Associate Professor
Nathaniel Bagshaw Ward (1791-1868)
Wardian Case

Public Domain,
https://commons.wikimedia.org/w/index.php?curid=784021
Choices, choices, choices!

**Closed**

[Image: FarOutFlora, CC BY-NC_ND 2.0]

**Open**


**Dish**

[Image: Farrell’s Florist, Drexel Hill, PA, CC BY-NC 2.0]
“Fancy” Containers for Closed Terrariums
Debbie Deboo, Pixabay
Cloche
Aquarium
Inexpensive Containers
Why???
Use What You Can Find

Must be clean!
Gravel?
Water Movement in Soils (1959)

• By J.C. Hsieh and Walter H. Gardner, Washington State University, Public Domain
Is it ok to use gravel for decorative purposes?

Mokkie / CC BY-SA
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Potting Media

- No garden soil
- Use new, potting media
- Don’t need fertilizers in your media; plants grow too fast
Plants for Closed Terrariums

- Small ferns
- Selaginella
- Club moss
- Begonias
- Dwarf African violets
- Venus fly traps
Plants

*Peperomia caperata*  
Aluminum plant
Plants

Arrowhead plant

Nerve plant
Plants

Asparagus fern

Fern
Plant Selection

Polka dot plant

Mini orchid

No Succulents in Closed Terrariums!

Amanda, CC by NC-ND 2.0,
https://www.flickr.com/photos/pinprick/4501741790
Design

- Plan the design before planting
- Number of plants based on container
- Play with colors, textures and heights
- Limit number of variegated plants
- Wide mouth container or tools
Don’t let the plants touch the glass!

Ex.libris, CC By-NC-ND 2.0, https://www.flickr.com/photos/exlibris/3352879022/in/photostream/
Gravel and Accessories
Preserved Moss
For Kids
Marimo Ball
Sophisticated Photo from Emily Hilgers
Watering
Moisture Equilibrium

• Leave open for 24 hours
• Replace lid for 24 hours
• Repeat until minimal or no condensation
Light

- No direct sun!
- Bright, indirect light
DISH GARDENS
More Flexibility

- Doesn’t need to be glass
- All but the most humidity-loving plants
- Succulents and cacti
- Choose your potting media based on plants
- Doesn’t hurt to have holes in bottom of container
Photos from Terrie Mann
Terrie Mann
Glasses
Cacti and Succulents