

STAMP CERTIFICATION

Name of Junior _____

I completed this passport on _____ date _____.

My Junior leader, _____ name of leader/mentor _____,

of _____ Junior Grange # _____ in state _____,

(or, if a 1+ Junior member, my mentor is a member of

_____ Grange # _____ in state _____)

approved my stamp on _____ date _____.

Junior Leader Signature _____

NOTES ON STEPS/STAMP WORK



Water in Agriculture

World Discovery
#78

DIFFICULTY LEVEL



AUDIENCE

Designed for any Junior to be capable of doing the activities with the help of an adult.

NECESSARY RESOURCES

Computer or tablet with internet access, paper, pencils, and markers, poster-making activities, water, large, clear plastic bowl, masking tape, clear cups, ice, plastic wrap, permanent markers, rubber bands, a small weight or rock, a nearby farm, paper towel, plastic bag, stapler, beans, tape

LEARNING OBJECTIVES

The purpose of this passport is for Junior Grangers to learn how water is essential for agriculture and the different ways it is used. Junior Grangers will also learn about water conservation.

LEARNING OUTCOMES

Upon completion, Junior Grangers will be able to:

- Be able to understand how water is used in agriculture
- Identify different methods of water use.
- Learn how to conserve water.
- Spread information by learning lots of different things.
- Learn public speaking through presenting.

Step 1. Watch this video about how water is used in agriculture:

<https://www.youtube.com/watch?v=-0jL6HikdTw>

Date Completed: _____

Step 2. Learn about the water cycle by completing **Activity 1** in this plan from **Ag in the Classroom**:

<https://agclassroom.org/matrix/lesson/print/225/>

Date Completed: _____

Step 3. Define the word “hydroponic” using a dictionary or online source.

Date Completed: _____

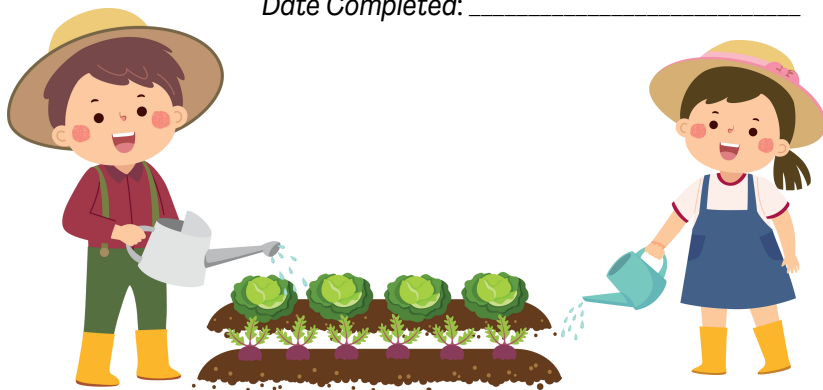
Step 4. Learn about different ways farmers can irrigate (or water) their crops: <https://www.youtube.com/watch?v=qRek-avqwel>

Date Completed: _____

Step 5: List five ways that water is used in agriculture

1. _____
2. _____
3. _____
4. _____
5. _____

Date Completed: _____



Step 6: Design a poster showing one way that water is used in agriculture, and present it to your Junior Grange.

Date Completed: _____

Step 7: Longer-Term Activity: Complete the activity about growing plants without soil:

<https://www.communityplaythings.co.uk/learning-library/articles/growing-beans-in-a-bag>

Date Completed: _____

Step 8: (if feasible) Visit a local farm and interview a farmer about how they both use and conserve water on their farm.

Date Completed: _____

Step 9: List 5 ways that you will can conserve water at home:

1. _____
2. _____
3. _____
4. _____
5. _____

Date Completed: _____

