



Through the Garden Gate Adventure Tour

You need: pencil, this recording sheet

Goal: *Try to find both living and non-living things in the Grapevine Botanical Garden. When you find an item, check it off. Do your best not to harm, move, or take away any of the things on the list. Animals and plants may depend on them. Thank you!*

Instructions: If you are a novice, find or answer the a) items. If you are an apprentice, find or answer the a) and b) items. If you are an expert, find or answer the a), b) and c) items. Note: Answers to selected items are at the bottom of the adventure tour list.

#1 Start at the rear of the Education Pavilion and take the path to the right that crosses over the bridge.

- Find the square foot gardens
- How many one foot squares are in each square foot garden? _____ In all the gardens combined? _____ Do you see something that you eat at home? _____
- How many pounds of vegetables can a square foot garden yield in one season? _____

#2 Look around the wooded area and visually locate the bird houses.

- How many different types of bird houses are there? (HINT: Look for different sizes and shapes.) _____
- What kind of bird could use the biggest box with the biggest hole? _____
- How many species of birds can be seen in your average urban North Texas backyard? Estimate first and then look below to find out. _____

#3 Find the big historic oak tree surrounded by the split rail fence.

- How many rails are in one section of the split rail fence? _____
- How old is the historic oak tree this year? _____
- What famous United States document was signed around the time this bicentennial oak was a sapling? _____

#4 Find the composting corral surrounded by another split rail fence.

- How many types of composting methods are shown? _____
- What kinds of materials do you put in a composting pile? _____
What types of food are not recommended for a composting pile? _____
- What high temperature can a compost pile reach as the bacteria starts to decompose the material in the compost pile? Estimate first and then look below to find out. _____

#5 Continue on the path that leads across the bridge. Turn right and go to the fountain area.

- Find the fountain.
- How many raised bed planter areas surround the fountain? _____
- Using your foot as a unit of measure and walking heel to toe, how many of your feet does it take to go around the fountain? _____ Are you with someone with a

different-sized foot? How many of their feet might it take to go around the fountain?
Estimate how many of their feet first and then find out.

- #6 Go around the left side of the Mitchell House. Find the herb garden and the stand alone living wall planter.
- How many tiers are there on the living wall garden? (Count both sides.) _____
 - Estimate the number of plants each tier holds. Count to find out. _____
 - Look at the surrounding plants in the herb garden and find the name tags. How many of these herbs do you find in your pizza sauce? _____
- #7 Find and read the Butterfly's Life and Monarch Waystation signs.
- Point to the picture of the Monarch Butterfly. (HINT – Look at the smaller sign)
 - What are the four life stages of a butterfly? _____
 - How many eggs can a Monarch Butterfly lay in its lifetime? _____
- Answers to b) and c) are listed below.
- #8 Go past the Butterfly Garden to the side of the Mitchell House. Find the rain barrels.
- How many gallons of water do you think all the rain barrels will hold? (HINT: Each rain barrel will hold 50 gallons.) _____
 - How much water does a typical shower take? _____ How about a dishwasher? _____ Washing dishes by hand? _____ Estimate first and then look below to find out.
- #9 Go through the arbor archway and follow the path to the right between the hedge and iron fence.
- Find the Dwarf Pomegranate shrub and the Pomegranate shrub.
 - How much smaller is the dwarf shrub than the large shrub? _____ (HINT: Hold your hand at arm's length in front of you and spread your fingers. Look at both shrubs through your fingers in this fashion and estimate how much smaller the dwarf shrub is than the regular shrub.) What unit of measure could you use to make your answer even more scientific? _____ Can you use a percentage? _____
 - How many seeds does one pomegranate fruit have? Estimate first and then look below to find out. _____

End of adventure tour. We hope you had fun!

Answers to selected items:

#1c) A square foot garden can average 20 pounds of vegetables per season—twice that of conventional planting methods. #2b) A screech owl
#2c) It is estimated that 25 species of birds can be seen in the average urban North Texas backyard. #3c) The United States Constitution was signed in 1787. #4c) A compost pile can build up temperatures of 160 degrees Fahrenheit or more. #6c) Pizza sauce may contain Thyme, Oregano, and Rosemary. #7b) The four life stages of a butterfly are: The egg, the larva (caterpillar), the pupa (chrysalis), and the adult butterfly. #7c) A typical Monarch Butterfly may lay between 100 and 300 eggs. #8c) A typical shower takes 25 gallons. A typical dishwasher takes 15 gallons. Washing dishes by hand takes about 5 gallons of water. #9c) The average pomegranate has 613 seeds.