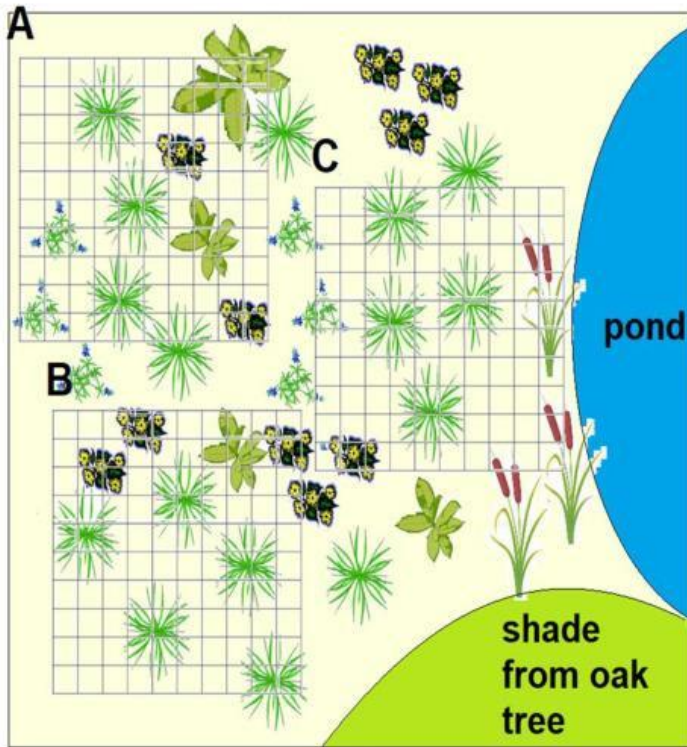




### KEY



Use the diagram on the left to answer the questions 1-8.

- Complete the following table showing the numbers of each plant counted in each quadrat.

| Plant       | Quadrat A | Quadrat B | Quadrat C |
|-------------|-----------|-----------|-----------|
| Bullrush    |           |           |           |
| Catalena    |           |           |           |
| Elderdown   |           |           |           |
| Yellowpurse |           |           |           |
| Wildgrass   |           |           |           |

- Which plant appears to need water to thrive?

\_\_\_\_\_

- Why did the students avoid throwing the quadrat under the oak tree?

\_\_\_\_\_  
 \_\_\_\_\_

- In which quadrats are there no bullrushes? \_\_\_\_\_

- Which plant is the greatest in number in quadrat B?

\_\_\_\_\_

- Which plant takes up the greatest **percentage** of

quadrat C? \_\_\_\_\_

- Estimate the percentage of the quadrat taken up by

the plant named in #6 above. \_\_\_\_\_%

8. Complete the table below using the previous diagram of the sample area.

| Species     | Number of individuals in Each Quadrat |    |    | Total # Organism | Species Density<br>/# of individuals<br>per m <sup>2</sup> | Species Frequency<br>/ % |
|-------------|---------------------------------------|----|----|------------------|------------------------------------------------------------|--------------------------|
|             | Q1                                    | Q2 | Q3 |                  |                                                            |                          |
| Wildgrass   |                                       |    |    |                  |                                                            |                          |
| Catalena    |                                       |    |    |                  |                                                            |                          |
| Elderdown   |                                       |    |    |                  |                                                            |                          |
| Yellowpurse |                                       |    |    |                  |                                                            |                          |
| Bullrush    |                                       |    |    |                  |                                                            |                          |

#### Extension Work

9. Calculate the information required on the following table. If the answer comes to a decimal, round to the nearest **WHOLE NUMBER**. Shaded boxes require no information.

| Species | Number of individuals or Percentage Cover |      |     |     |     |     |    |     |    |     | Total of<br>10<br>Quadrats | Species<br>Density | Species<br>cover | Species<br>Frequency |
|---------|-------------------------------------------|------|-----|-----|-----|-----|----|-----|----|-----|----------------------------|--------------------|------------------|----------------------|
|         | Q1                                        | Q2   | Q3  | Q4  | Q5  | Q6  | Q7 | Q8  | Q9 | Q10 |                            |                    |                  |                      |
| Pix     | 3                                         | 5    | 8   | 9   | 6   | 10  | 0  | 0   | 0  | 0   |                            |                    |                  |                      |
| Stix    | 18                                        | 24   | 0   | 0   | 0   | 16  | 0  | 0   | 0  | 2   |                            |                    |                  |                      |
| Trix    | 50%                                       | 100% | 18% | 50% | 35% | 20% | 0  | 0   | 0  | 0   |                            |                    |                  |                      |
| Lix     | 0                                         | 0    | 0   | 80% | 0   | 0   | 0  | 0   | 0  | 0   |                            |                    |                  |                      |
| Nix     | 16                                        | 16   | 3   | 50  | 1   | ND  | ND | ND  | ND | ND  |                            |                    |                  |                      |
| Bix     | 10%                                       | 25%  | 5%  | 30% | ND  | ND  | ND | ND  | ND | ND  |                            |                    |                  |                      |
| Fix     | 700                                       | 500  | 32  | 100 | 0   | 0   | 0  | 230 | 0  | 40  |                            |                    |                  |                      |
| Hix     | 52                                        | 81   | 6   | ND  | ND  | ND  | ND | ND  | ND | ND  |                            |                    |                  |                      |

