

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Paper Flower

### 3rd Grade- Design Task Assessment

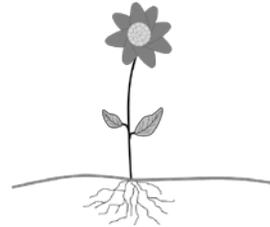
Directions: For each of the questions below, choose the BEST answer.

1) Which part of the plant takes in water and nutrients for the plant to grow?

- A. leaves
- B. roots
- C. stem
- D. flower

2) Nutrients and water flow up from the roots through tubes in the \_\_\_\_\_?

- A. leaves
- B. stem
- C. flower
- D. fruit



3) One of the reasons plants have flowers is to make \_\_\_\_\_.

- A. seeds
- B. sugar
- C. salt
- D. water

4) Roots get water from the \_\_\_\_\_.

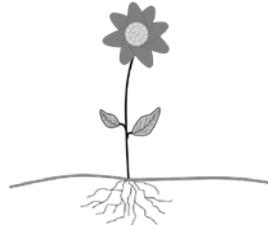
- A. soil
- B. leaves
- C. flowers
- D. grass

5) Which job is **not** performed by the stem?

- A. carrying water
- B. holding up the plant
- C. producing nutrients
- D. holding leaves

6) The stem holds the leaves up so they can take in \_\_\_\_\_.

- A. sunlight
- B. dust
- C. rainwater
- D. oxygen



7) Which does a plant **not** use to grow?

- A. carbon dioxide
- B. water
- C. salt
- D. sunlight

8) What do leaves make for the plant?

- A. salt
- B. sugar
- C. water
- D. starch

9) A synthetic material is \_\_\_\_\_.

- A. man made
- B. natural
- C. genuine
- D. authentic

- 10) The process of water moving up through the stem is called \_\_\_\_\_.
- A. rushing action
  - B. capillary action
  - C. flowing reaction
  - D. cellular reaction
- 11) A design that borrows ideas from nature is called a \_\_\_\_\_.
- A. bio-inspired design
  - B. cell-inspired design
  - C. micro- redesign
  - D. natural-redesign
- 12) Mary owns Paper Creations Company. Her company has been asked by the Indianapolis Public Library to create 500 colorful paper flowers. The library needs the flowers in time for their party only three days away. This limited amount of time to make the flowers is listed as a \_\_\_\_\_?
- A. criteria
  - B. constraint
  - C. goal
  - D. problem statement
- 13) Jim owns Paper Party Place. His company has been asked by the Chicago Zoo to make 300 colorful paper flowers for the zoo's 50<sup>th</sup> birthday celebration. The flowers will be passed out to the first 300 park visitors on the day of the celebration. Who is the end user?
- A. Jim
  - B. Paper Party Place
  - C. Chicago Zoo
  - D. Park visitors