@ NEW SMYRNA BEACH HIGH SCHOOL

Accept our connectedness to events. It is not unknown forces that cause our problems. We are the cause and the cure. We create our own reality and we can change it.

MEASUREMENT TOPIC 5

Plant Structure and Function

2012-2013

New Smyrna Beach High School

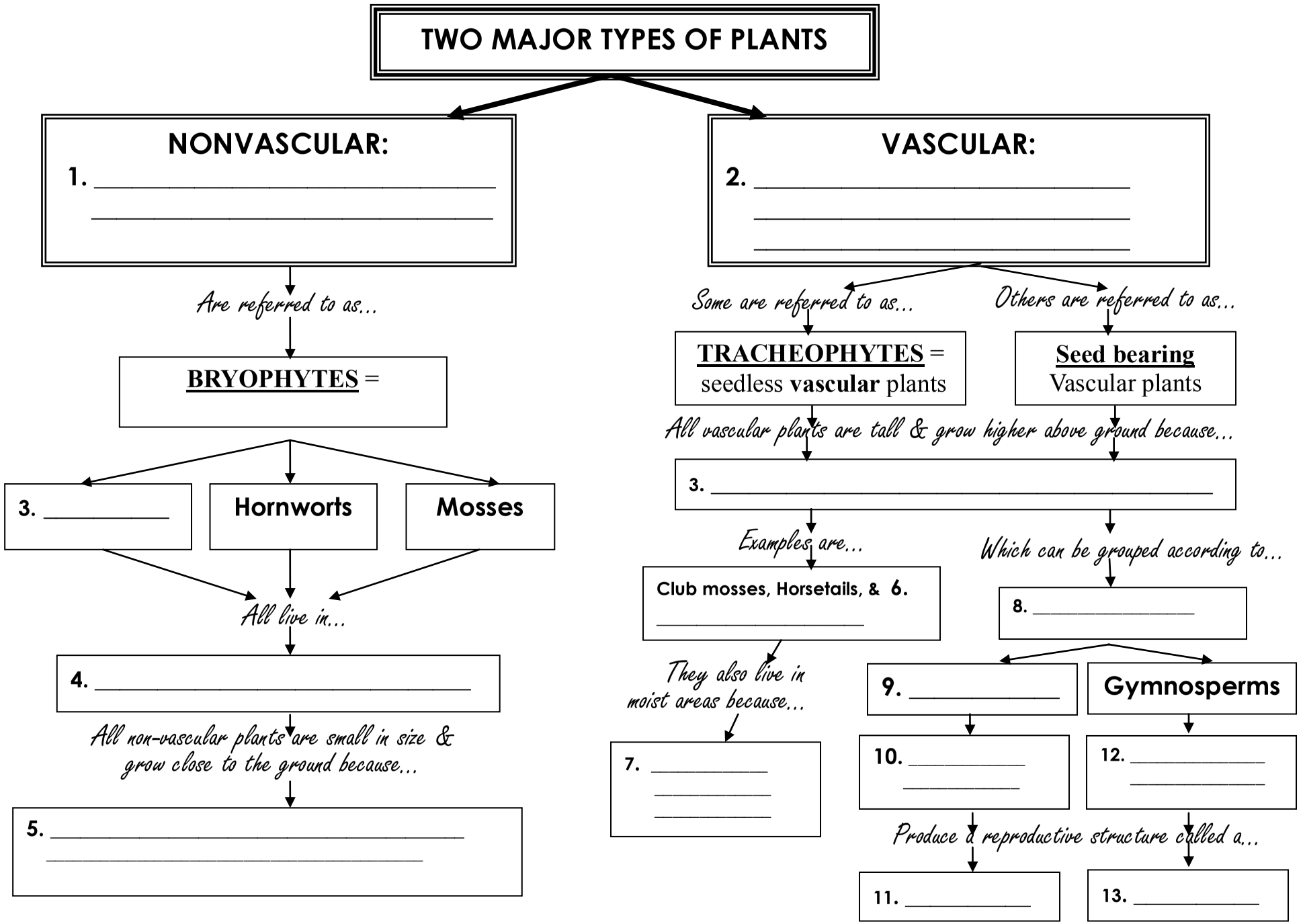
Working together with parents, school personnel and community members, New Smyrna Beach High School students will graduate with the knowledge, skills and values to be positive contributors to society.

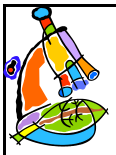
***NOTES* : MEASUREMENT TOPIC 5 cont.**

TOPIC: Overview of Plants

Possible Test Questions or Topic	***Notes:***
SECTION 20.2	
1.What are the habitat	
requirements for seedless	
vascular plants?	
2. What are the evolutionary	
advantages of a vascular	
system?	
3. What are the evolutionary	
advantages of seeds?	
SECTION 20.3	
4. What adaptations give flower-	
ing plants a reproductive	
advantage over gymnosperms?	
5.What are the primary differences	
between Monocots and Dicots?	
SECTION 20.4	
6. In what ways are plants an	
important part of our culture	
today?	
7. Why is a knowledge of plants	
important to pharmacology?	
8. Aside from food & medicine, in	
what ways are plants used in	
your life?	

Plant Classification

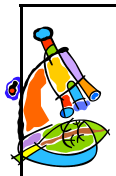




***NOTES* : MEASUREMENT TOPIC 5 cont.**

TOPIC: Structure & Function of Plants —> ORGANS

Possible Test Questions or Topic	***Notes:***
1. Describe the functions of the	**A. ROOTS:**
major plant organs listed at the	
right.	
	Type 1: Fibrous root
	Type 2: Taproot:
	B. STEMS:
	Type 1: Herbaceous stem:
	Type 2: Woody stem:
	C. LEAVES:
	Stomata & Guard Cells:
	D. FLOWERS:
	Stamen:
	Pistil:



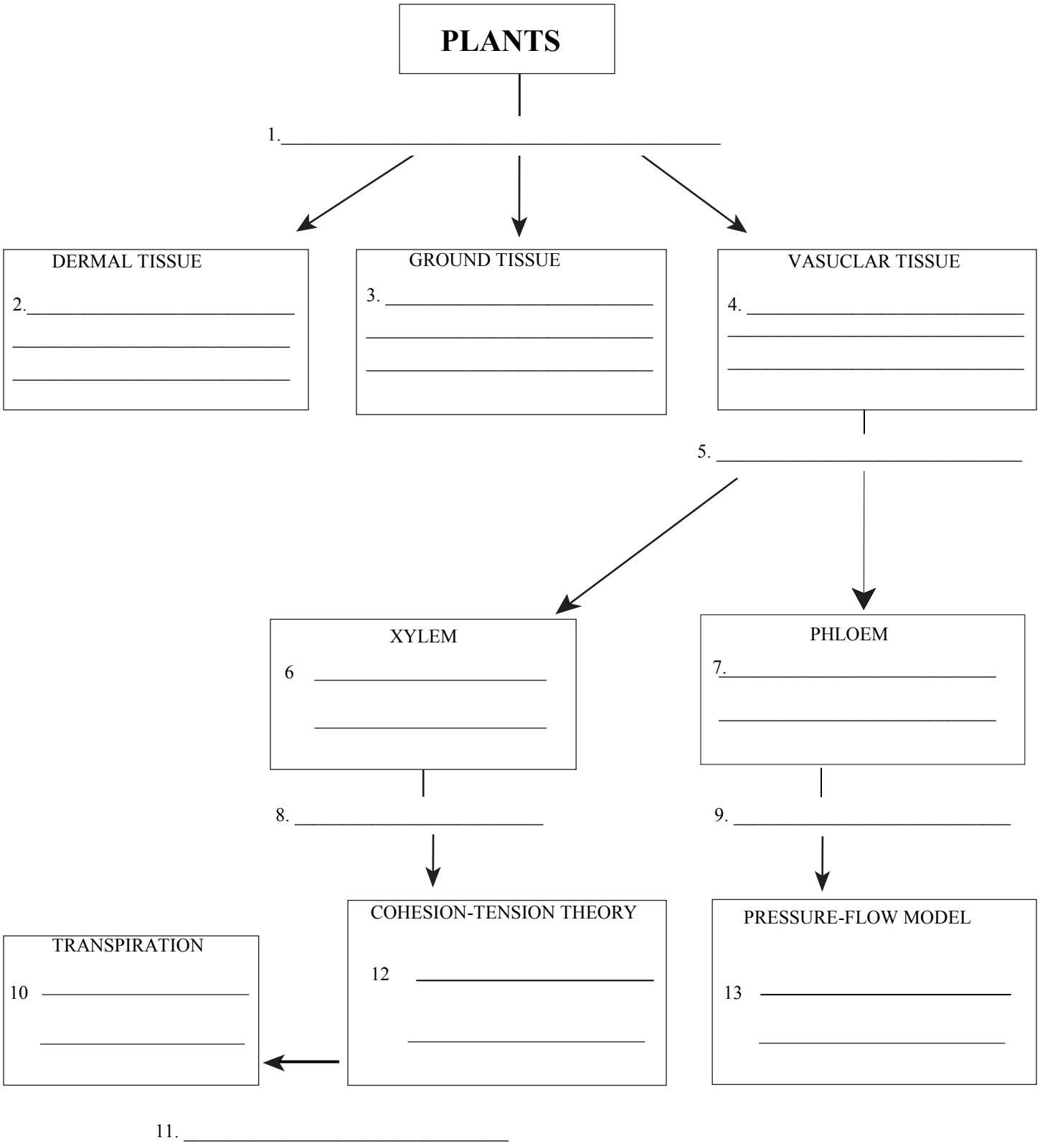
***NOTES* : MEASUREMENT TOPIC 5**

TOPIC: Structure & Function of Plants —> TISSUES

Possible Test Questions or Topic	***Notes:***
1. What is a 'tissue'?	•
2. List & describe & give the	**A.**
function of the THREE types of	
plant TISSUES.	
	• *How is **dermal tissue** like our skin?*
	B.
	• *What parts of our body function like **ground tissue**?*
	C.
	Ex: Xylem =
	Ex: Phloem =
	• *What part of our body functions similar to plant **vascular tissue**?*

Plants & Their Tissues

Define the words in the boxes. On the line across each arrow, write a phrase that describes how the words in the boxes are related **to each other**.



Notes: Plant Processes

Explain how the following plant organs & tissues are directly related to the process of:	
1. <u>PHOTOSYNTHESIS</u>	**2. <u>CELLULAR RESPIRATION</u>**
A) Leaves	A) Leaves
B) Stomata	B) Stomata
C) Guard Cells	C) Guard Cells
D) Stem	D) Stems
E) Phloem	

Notes: Plant Processes, cont.

Explain how the following plant organs & tissues are directly related to the process of:	
3. <u>TRANSPIRATION</u> A)Leaves B) Stomata C) Guard Cells D) Xylem E) Roots	**4. <u>REPRODUCTION</u>** A)Flowers B) Stamen C) Pistil D) Fruits E) Cones F) Seeds