Plant Morphology

- Shoot System
- winter twigs
- leaf morphology
- Root System
  - root architecture
  - modified root

Basic Plant Morphology (definition) -

Shoot System

Two Integrated Organ Systems

1. Root System

Root System
- tap, lateral, adventitious roots
- anchorage
- storage
- root hairs
- elemental mineral uptake
- water absorption

Shoot System
- leaves
  - light, CO₂ capture (photosynthesis!)
- stems
  - support
  - transport
- flowers
  - sexual reproduction
  - pollinator attraction

The Shoot System

Stems
- basic structure

The Shoot System

modular construction

Organ Systems: Function

the Shoot System

The Shoot System

Stems
- basic structure

The Shoot System

modular construction

?
Modifications of Stem and Shoot

- Stolon - above ground
- Rhizome - below ground
- Bulb - storage
- Tuber - storage

The Shoot System

- Leaves
  - basic structure (morphology)

axillary bud
midvein
petiole + blade = LEAF