



# Plant Science

*Fort Atkinson High School*  
*Agriculture Department*



| Unit  | Topics   |
|---|--|
| Plant Anatomy and Physiology & Plant ID (25 days) | Parts of plants and how they function  |
|   | Identification of weeds (including poisonous plants)                                     |
| Environments & Taxonomy (10 days)                 | What plants need to survive  |
|   | Plant nutrients and their functions (including deficiencies)                             |
|   | How plants are named and why it's important  |
| Soils (25)  | Importance of soils  |
|   | Soil profiles and types of soils   |
|   | Soil erosion and degradation   |
|   | Testing soil   |
| Plant Propagation & Growth Regulators (15 days)   | Types of reproduction for plants   |
|   | Influencing and changing the growth of plants  |
| Bedding Plant Production (6 days)                 | Methods of production (including working with plugs and seeds)                           |
|   | Principles of transplanting  |
|   | Caring for bag and basket arrangements   |
| Container Plants & Terrariums (5 days)            | Caring for plugs and seedlings   |
|   | Creating and caring for potted plants  |
|   | Establishing and caring for terrariums   |
| Plant Disease and Pest Management (25 days)       | Types of pests and ways to control them  |
|   | Chemical safety  |
|   | Alternatives to chemical use   |
|   | Disease ID and treatment   |
| Holiday Crafts and Floral Design (9 days)         | Creating holiday wreaths, centerpieces, and accents with plant materials                 |
| Fruits and Vegetables (15 days)                   | Reasons to garden  |
|   | Principles of gardening and placement (including designing a garden)                     |
|   | Fruit and vegetable production principles and practices                                  |
|   | Pruning fruit trees  |
| Landscape Design (25 days)                        | Basic landscape design principles  |
|   | Identification of plants that grow in a given area (and being able to put them together) |
|   | Importance of client relations   |
|   | Evaluation of a landscape site   |
|   | Drawing landscape plans  |
| Turfgrass Management (10 days)                    | Types of turfgrass   |
|   | Importance of turfgrass and maintenance  |

## Activities may include:

- Speeches / Presentations
- Giving Sales Presentations
- Creating Resumes and Cover Letters
- Creating Marketing and Business Plans
- Job Interviewing
- Writing Agriculture News Stories

This class will require you to “get dirty” and be involved in all of the activities that are associated with the lessons. There will be classroom time and “note days” however, the nature of the class lends itself to many outside days and activities. How many of these days we have will depend on your cooperation and participation in the activities.