Honors Biology Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
NDHS Per: \_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_

**Photosynthesis Test Study Guide**

**Test Format:**Multiple Choice  
Short Answer  
Essay (Light Dependent Reaction)  
Lab Based Questions

**Day 1:**Chloroplast Structure: Know where the different steps of photosynthesis take place in the chloroplast  
Photosynthesis Equation: Know where the reactants are consumed and where the products are made in the chloroplast and in which steps of the process  
Importance of Photosynthesis  
**Day 2:**Parts of Thylakoid Membrane   
 Pigments – color and role  
 Electron Transport Chain   
 Transmembranal Proteins  
 NADP+ Reductase  
 ATP Synthase

Light Dependent Reaction **(THIS IS YOUR ESSAY)**

**Day 3:**Light Independent Reaction  
Important Participants: NADP+/NADPH, ATP, Rubisco  
 Transport in Plants:  
 - role of Xylem  
 - role of Phloem

Internal Structure of a Leaf: mesophyll (palisade & spongy), air space, vascular bundle (xylem and phloem), stomata and guard cell, epidermis, cuticle  
Process of Transpiration: importance of cohesion and adhesion  
Factors that affect Transpiration:

**Day 4:**Review