

## Ames Test Experimental Design Worksheet

### Scientific Method Worksheet

Amount of Sunlight (Independent Variable)  
Dandelion Leaf Width (Dependent Variable).

**QUESTIONS:** The dandelions in the front of your house, which receives the  
more sunlight, have smaller leaf widths than the dandelions in the shaded backyard of your

**ANALYSIS**  
They are exposed to more sunlight per day, (planned change in independent

**TITLE**  
The Effect of  
on

**OBSERVATIONS:**  
most sun, had  
house.

**HYPOTHESIS:**  
If dandelions

What do you know about your chemical so far? (How is it used? How does it work?)

**INDEPENDENT VARIABLE:** Amount of sunlight provided to each dandelion plant  
Measured by: Time in hours of exposure to sunlight

**DEPENDENT VARIABLE:** Leaf width of dandelion plants

Give at least one **Reference** to a published, scientific article that discusses the chemical.