



# Green Our Planet's School Garden Curriculum

# Title: Capturing the Sun

Topic: Link:	Plant Parts and Functions – Are Plant Leaves Like Solar Panels? https://www.youtube.com/watch?v=hhztpX-bU3o&feature=youtu.be		
Grade Level: 1			
Standards:	1-LS-1 (at 0 :39)		
Objectives:	(at 0:59)		
<ul> <li>Make and record observations about plant leaves</li> </ul>			
	<ul> <li>Describe function of plant leaves</li> </ul>		
	<ul> <li>Describe role the leaf plays in plant food production</li> </ul>		
Segments:	• Teacher segment: 0:28 - 1:07		

- Student segment: 1:08 10:52
  - Quiz 10:54 12:34

## Concepts and/or Topics Covered & Vocabulary Notes:

- Reviews plant parts and how plants grow (seeds / soil / water / sun / air-wind / roots / stem )
- Defines solar panels and discusses how plant leaves function as solar panels
- Vocabulary section at end (12:35)

leaf	energy	solar	
sprout	sunlight	hypothesis	
Possible additional vocabulary:			
nutrients/nutritious	taproot	absorb vs release element	
cotyledon vs. true leaves	convert	carbon dioxide vs oxygen	

## Methodology:

- Some reading and writing and drawing (plant parts)
- Nice visuals/photography showing plant growth
- Quiz at end includes open-ended questions, multiple choice, and true/false

## Possible Supplemental / Follow-up Activities:

Suggested "challenge" (10:35 in video) - Take a walk or go to a yard/garden and observe leaves. How many solar panels do you see?