



2019-2020 FAIRCHILD CHALLENGE
HS Challenge 2: "Shade Our Schools – Leaves Are Cool!"



Maximum points for challenge: 200 points

Panel Date: _____

SPECIFIC REQUIREMENTS:

- A field journal summarizing the results of the data through text, drawings, photos and graphs
- Completed data sheets

Criteria	Max. Points	Judge 1 Initials:	Judge 2 Initials:	Judge 3 Initials:	Judge 4: Initials:
Observation	25				
<ul style="list-style-type: none"> ● Sufficient, credible and relevant information is provided ● Students followed the protocol ● Field journal entries include notes, labeled sketches and observations ● Notes and observations are clearly conveyed 					
Artistry and Technical Abilities	25				
<ul style="list-style-type: none"> ● Artwork demonstrates careful observations and a clear representation of the main distinctive traits of the leaves they choose ● Shows evidence of collaboration and teamwork 					
Research/Detail of Analysis	100				
<ul style="list-style-type: none"> ● Analysis of the results and conclusions clearly show how leaf COLOR, SHAPE and SIZE affect leaf temperatures. ● Written analysis includes additional variables that may affect leaf temperature ● Written analysis demonstrates attention to detail 					
Writing Skills	25				
<ul style="list-style-type: none"> ● Research is presented in a clear and well-written way ● Proper grammar, spelling and punctuation used throughout 					
TOTAL	175				

School: _____

Student(s): _____

Requirements

(25 points)

Collect temperature data for leaves of different colors, different shapes and different sizes as per Shade Our Schools protocol	4	points	_____
Data sheets must include temperature measurements of at least 3 leaves per variable	3	points	_____
Data sheets must be filled out completely (including the "notes" section)	3	points	_____
Data sheets must include the temperature measurements for the reference material	3	points	_____
Complete data set must be submitted with Field Journals	1	points	_____
Title page of field journal must clearly indicate school name, teacher name(s) and how many students or classes were involved in the collection of data and the creation of field journal	2	points	_____
Field journal must include a combination of text, labeled drawings, photos and graphs summarizing the results	2	points	_____
Field journal must include an analysis of the results and conclusions	3	points	_____
Field journal must be 8.5" x 11" or less, and 12 double-sided pages or less, excluding the front and back cover pages. Pages cannot include additional attachments or be used as pockets	2		_____
Submitted on time (late entries may not receive points)	1	points	_____
Entry Form submitted with entry.	1		_____

Meets Requirements (circle one): Y / N

_____ **25** points

1. **AVERAGE: JUDGES' SCORES FROM SUBTOTALS** _____

2. **TOTAL SCORE: ADD REQUIREMENTS TO AVERAGE** _____

Award Placement: Please specify that rationale for awarding this entry.