

# NEW HAVEN SCIENCE FAIR EVALUATION SHEET GRADES K-4

\_\_\_Self \_\_\_ Judge

## 1 Scientific Thought (30 Points)

### Is it a good experiment?

1	Uses observation skills -seeing, hearing touching	
2.	Comparisons made. (sensory, linear, weight, capacity, quantity) (qualitative and quantitative measurement)	
3.	Hypothesis shows cause and effect	
4.	Experiment well designed? (changes one thing at a time, controlled)	
5.	Data gathered and organized into a table or graph	
6.	Conclusions supported by data.	
<b>SECTION ONE TOTAL</b>		

## 2 Creativity (15 Points)

### Is it a creative experiment?

1	Originality, uniqueness, use of materials	
2.	Poses an interesting question	
3.	Creative applications to everyday life	
<b>SECTION TWO TOTAL</b>		

## 3 Display and Components (25 Points)

### Is it presented well?

1	Parts are complete (abstract, display, lab notebook)	
2.	Shows good workmanship, orderliness, neatness	
3.	Has good visuals: drawings and photos.	
4.	Shows evidence of outside research	
5.	Experiment procedure clear and understandable	
<b>SECTION THREE TOTAL</b>		

## 4 Student Oral Presentation (30 Points)

### Is it explained well?

1	Project within student's level of understanding	
2.	Student understands science of project	
3.	Student can explain why it is a good experiment	
4.	Oral presentation is in a logical order	
5.	Student can explain research behind project	
6.	Student can explain importance, connections to real life	
<b>SECTION FOUR TOTAL</b>		

\* Please assign a value from 1 (lowest) to 5 (highest) for each item **GRAND TOTAL** ( )

Name of Project: \_\_\_\_\_

Name of Student(s): \_\_\_\_\_

School \_\_\_\_\_ Name of Teacher: \_\_\_\_\_

Display #: \_\_\_\_\_ Judge Name: \_\_\_\_\_ Mentor Name: \_\_\_\_\_

# NEW HAVEN SCIENCE FAIR EVALUATION SHEET GRADES 5-12

\_\_\_Self \_\_\_ Judge

## 1 Scientific Thought (30 Points)

### Is it a good experiment?

1	Purpose of project and hypothesis clearly stated, identifies independent/dependent variables (cause and effect)	
2.	Experiment well designed (changes one variable at a time, constant variables, control group)	
3.	Procedure, including materials, explained and repeatable	
4.	Data gathered and organized into a table or graph	
5.	Conclusions supported by data, directly related to hypothesis and discuss validity	
6.	Discussion shows implications for future study	
<b>SECTION ONE TOTAL</b>		

## 2 Creativity/Skill (15 Points)

### Is it a creative/skillful experiment?

1	Originality, uniqueness, use of materials	
2.	Measurements and data in data table and graph format, with appropriate mathematical analysis	
3.	Real world implications showing creative applications to everyday life.	
<b>SECTION TWO TOTAL</b>		

## 3 Display and Components (25 Points)

### Is it presented well?

1	Parts are complete (abstract, display, lab notebook, research paper, self evaluation)	
2.	Lab notebook clearly lists dates and discusses pre experiment work and shows all experimental data	
3.	Display is well organized, neat, legible, and understandable	
4.	Discusses outside research, with appropriate bibliography	
5.	Experiment procedure clear and understandable, has good visuals: drawings and photos	
<b>SECTION THREE TOTAL</b>		

## 4 Student Oral Presentation (30 Points)

### Is it explained well?

1	Project within student's level of understanding, appropriate level of difficulty	
2.	Student understands science of project, can provide logical solutions to "what if" questions related to project	
3.	Student can explain why it is a valid experiment, explain conclusions in relationship to independent and dependent variables	
4.	Student has logical order and structure to oral presentation	
5.	Student can explain research behind project, originality of idea and experiment	
6.	Student can explain importance, connections to real life, and implications for society	
<b>SECTION FOUR TOTAL</b>		

\* Please assign a value from 1 (lowest) to 5 (highest) for each item **GRAND TOTAL** ( )

Name of Project: \_\_\_\_\_

Name of Student(s): \_\_\_\_\_

School \_\_\_\_\_ Name of Teacher: \_\_\_\_\_

Display #: \_\_\_\_\_ Judge Name: \_\_\_\_\_ Mentor Name: \_\_\_\_\_