

The background is split into two vertical panels. The left panel is a light gray gradient with several realistic water droplets of various sizes scattered across it. The right panel shows a close-up, shallow depth-of-field view of a laboratory bench. In the foreground, there's a petri dish with a blueish liquid. Behind it, a beaker contains a yellowish liquid. Several blue pipette tips are visible, some in focus and some blurred. The overall color palette is cool, with blues, greys, and soft yellows.

SCIENCE FAIR PARENT MEETING

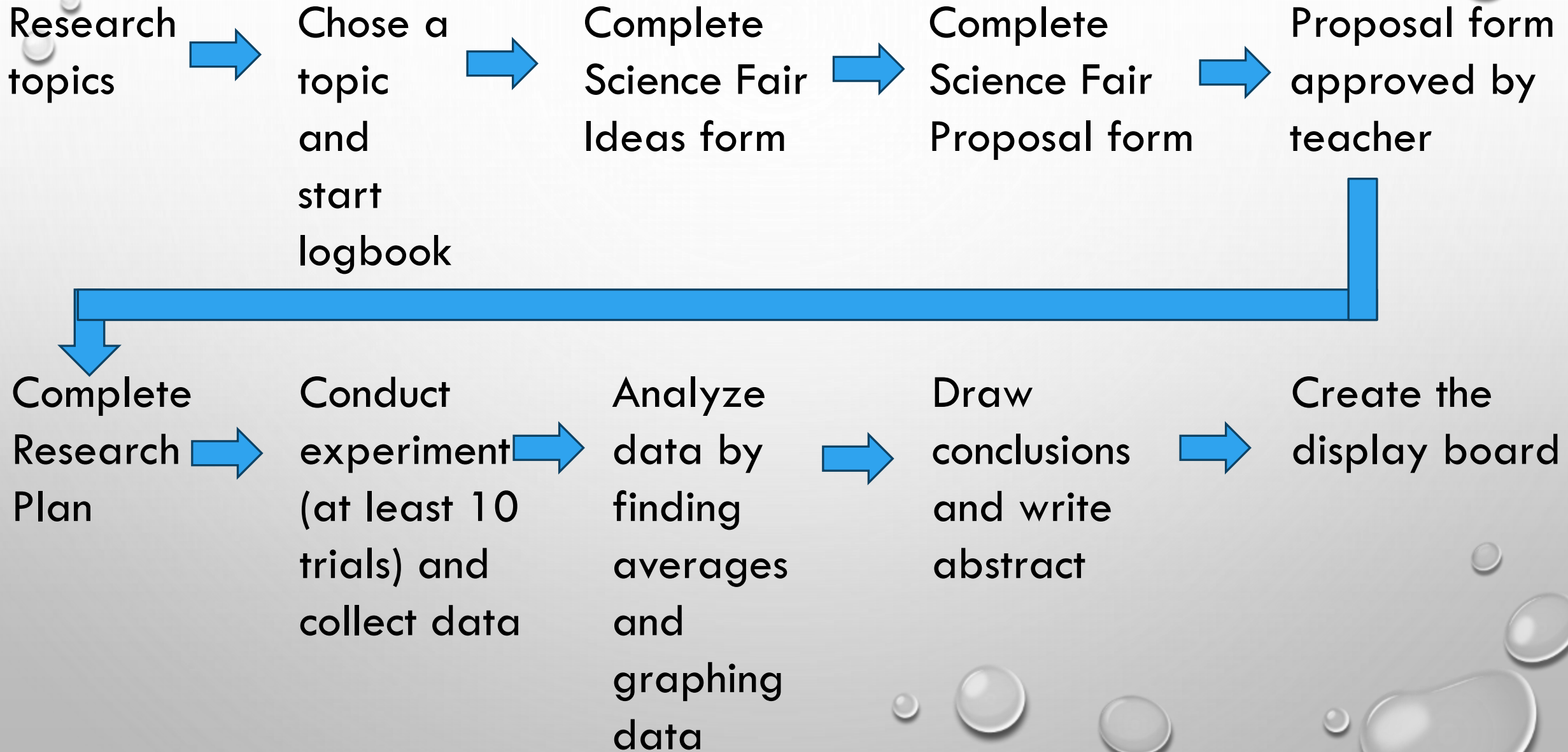
CLARK-SHAW MIDDLE SCHOOL

AUGUST 15, 2023

AGENDA

- REVIEW THE SCIENCE FAIR PROCESS
- APPROPRIATE AND INAPPROPRIATE TOPICS
- DISPLAY BOARD
- GRADING AND RUBRICS
- SCIENCE FAIR ACROSS ALL CURRICULA
- AMOUNT OF HELP YOU SHOULD GIVE YOUR CHILD
- EXAMPLES OF GOOD AND NOT SO GOOD PROJECTS
- AVAILABLE RESOURCES
- TIMELINE – WHEN THINGS ARE DUE

THE PROCESS



APPROPRIATE TOPICS

- PROJECTS THAT LOOK AT TWO OR MORE INDEPENDENT VARIABLES
- PROJECTS WHERE NUMERICAL DATA CAN BE COLLECTED
- PROJECTS THAT CAN BE DONE IN A TIME SPAN OF 1 DAY TO 4 WEEKS
- PROJECTS THAT YOU CAN EASILY GET THE MATERIALS
- PROJECTS THAT ARE AFFORDABLE
- PROJECTS WHERE ALL VARIABLES OTHER THAN THE INDEPENDENT AND DEPENDENT VARIABLES CAN BE CONTROLLED
- PROJECTS THAT HAVE DEPTH

INAPPROPRIATE TOPICS

- NO VERTEBRATE ANIMALS, THEIR TISSUES OR BLOOD— FISH, AMPHIBIANS, REPTILES, BIRDS, MAMMALS
- NO RECOMBINANT DNA
- NO PATHOGENS
- NO CONTROLLED SUBSTANCES
- NO GROWING BACTERIA OR FUNGI
- NO HUMANS
- NO FLAMMABLE OR HAZARDOUS MATERIALS
- PROJECTS WHERE NUMERICAL DATA CANNOT BE COLLECTED

DISPLAY BOARD

- THIS IS THE FINAL PIECE.
- SUMS UP THE WHOLE PROJECT
- SIZE 36" X 48"
- USE RUBBER CEMENT TO GLUE PIECES TO BOARD
- ALL COMPONENTS MUST BE TYPED

GRADING

- RESEARCH READINESS – MINOR GRADE SOCIAL STUDIES, QUARTER 1
- SCIENCE FAIR IDEAS – MAJOR GRADE SCIENCE, QUARTER 1
- SCIENCE FAIR PROPOSAL – MINOR GRADE SCIENCE, QUARTER 1
- RESEARCH PLAN – MINOR GRADE SCIENCE, QUARTER 1
- DATA CHECKS 1 AND 2 – MINOR GRADE SCIENCE, QUARTER 2
- ABSTRACT – 1. CONTENT – MAJOR GRADE SCIENCE, QUARTER 2
2. MECHANICS – MINOR GRADE LANGUAGE ARTS, QUARTER 2
- MATH COMPONENT – MINOR GRADE MATH, QUARTER 3
- DISPLAY BOARD – MAJOR GRADE SCIENCE, QUARTER 3
- LOGBOOK – MAJOR GRADE SCIENCE, QUARTER 3
- PRESENTATION – MAJOR GRADE SCIENCE, QUARTER 3

RUBRICS

- EACH GRADE LEVEL HAS THEIR OWN GRADING RUBRICS FOR
 - RESEARCH READINESS — ON THE ASSIGNMENT FORM
 - ABSTRACT — IN SCIENCE FAIR INFORMATION PACKET
 - LOGBOOK - IN SCIENCE FAIR INFORMATION PACKET
 - DISPLAY BOARD - IN SCIENCE FAIR INFORMATION PACKET
 - PRESENTATION - IN SCIENCE FAIR INFORMATION PACKET

THE GRADING OF THE IDEAS FORM, PROPOSAL FORM, RESEARCH PLAN, AND DATA CHECK IS BASED ON TEACHER DISCRETION.

SAMPLE RUBRIC – 8TH GRADE LOGBOOK

LOGBOOK: 100 Points (Major Grade) **A chronological journal of the entire SF process******

SF Title on front of logbook/Table of Contents	0	5	10		
Research (Include min 5 citations of student research/source info in MLA Format)	0	5	10		
Problem Statement/Hypothesis (Student-research question converted to Statement/Hypothesis in proper format)	0	5	10	15	
Procedure (Materials list & Steps of experiment) [Your handwritten explanation of the entire process, starting with materials list and continuing through end of procedure]	0	5	10		
Data: Quantitative & Qualitative (collected during the entire course of the Experiment) [Entries to include metric units of measurement, date/time]	0	5	10	15	20
Results (Includes min 15 pictures, formal data tables and graphs)	0	5	10	15	20
Reflections (Things you learned, possible changes, continued research)	0	5	10	15	

SCIENCE FAIR ACROSS ALL CORE CLASSES

IT IS A TEAM EFFORT ACROSS THE SCHOOL.

- SOCIAL STUDIES TEACHERS HELP WITH RESEARCH.
- LANGUAGE ARTS TEACHERS HELP WITH ABSTRACT WRITING AND MECHANICS.
- MATH TEACHERS HELP WITH DATA ANALYSIS AND GRAPHING.



HOW MUCH HELP SHOULD YOU GIVE YOUR CHILD

- THIS IS YOUR CHILD'S PROJECT.
- HELP THEM IF THEY NEED IT, BUT DON'T DO THEIR PROJECT FOR THEM.

“WE LEARN WISDOM FROM FAILURE MUCH MORE THAN FROM SUCCESS.” –SAMUEL SMILES



EXAMPLES OF GOOD PROJECTS

- PLEASE LOOK AT THE EXAMPLES THAT ARE DISPLAYED IN THE GYM. THE TOPICS ARE ON GRADE LEVEL AND ACCEPTABLE.

EXAMPLES OF NOT SO GOOD PROJECTS

- HERE ARE SOME EXAMPLES THAT ARE NOT GOOD PROJECTS:
 - WHICH SUBSTANCE MAKES ICE MELT THE FASTEST?
 - WHICH SUBSTANCE MAKES PLANTS GROW FASTER?
 - HOW DOES THE AMOUNT OF BAKING SODA AFFECT THE HEIGHT A COOKIE RISES?
 - DOES THE COLOR OF A CANDLE AFFECT THE TIME IT TAKES TO BURN?
 - WHICH BATH BOMB DISSOLVES THE FASTEST?

Science Fair Topics

es
NO!

YES!

✗ What makes ice melt faster?

✓ Does light affect the rate of mitosis?

✗ What makes a bath bomb fizz faster?

✓ Does coccolithophorid algae reduce CO₂ pollution?

✗ Which battery brand last the longest?

✓ Does a perovskite solar cell affect LED devices?

SCIENCE FAIR RESOURCES

- CLARK-SHAW WEBSITE
 - UNDER ACADEMICS
 - [HTTPS://CLARKSHAWMCPSSAL.SCHOOLINSITES.COM/ACADEMICS/SCIENCE-FAIR](https://clarkshawmcpssal.schoolinsites.com/academics/science-fair)
 - HELPFUL WEBSITES
 - COPIES OF FORMS
 - PICTURES OF SUCCESSFUL PROJECTS

2023-2024 Science Fair Project Checkpoint Dates*

August 15 (Tuesday) — 5:30pm August 17 (Thursday) - 6:00pm ALL grades in Gym - *Parents and Students Welcome - rescheduled due to inclement weather on Aug 15*

August 17 (Thursday) - Science Research Readiness form due (1st Quarter minor 40% grade)

August 23 (Wednesday) – Initial Ideas Checkpoint

August 30 (Wednesday)—Final Ideas Form due (1st Quarter MAJOR 60% grade) *

September 6 (Wednesday)—Project Proposal Form due (1st Quarter minor 40% grade) *

Once your Proposal Form is accepted by your science teacher, you **MUST do that Project!*

September 27 (Wednesday)—Research Plan due (1st Quarter minor 40% grade)

November 1 (Wednesday) – Raw Data Check

November 15 (Wednesday) - Final Data Checkpoint chart & graph due (2nd Quarter minor 40% grade) *
8th grade must also submit 10 pictures

November 30 (Thursday)— Abstract due (2nd quarter MAJOR 60% grade)

December 11 (Monday)—8th grade Display Board (3rd quarter MAJOR 60% grade) & Composition Logbook due (3rd Quarter MAJOR 60% grade) *

December 12 (Tuesday)—7th grade Display Board (3rd quarter MAJOR 60% grade) & Composition Logbook due (3rd Quarter MAJOR 60% grade) *

December 13 (Wednesday)—6th grade Display Board (3rd quarter MAJOR 60% grade) & Logbook due (3rd Quarter MAJOR 60% grade) *

January 8 (Monday)—Project Presentations Begin (3rd quarter MAJOR 60% grade)

January TBD (Wednesday) Clark-Shaw SF set-up in Gym/ALL science teachers plan to participate

January TBD (Thursday)—Clark-Shaw Science and Engineering Fair

January TBD (Friday)—Clark-Shaw Science and Engineering Fair Open House 8:00-1:00/Projects will be removed by Science Department that afternoon



QUESTIONS???

SCAN THIS QR
CODE TO
SUBMIT A
QUESTION

THANK YOU FOR ATTENDING

- 6TH GRADE

- JENNIFER FULLER – JFULLER@MCPSS.COM

- MINDY KIRKSEY – MKIRKSEY@MCPSS.COM

- 7TH GRADE

- DENISE BURCH – DBURCH1@MCPSS.COM

- TIM ASHLEY – TEASHLEY@MCPSS.COM

- 8TH GRADE

- MELISSA SPECKER – MSPECKER@MCPSS.COM

- TIM ASHLEY - TEASHLEY@MCPSS.COM