Timeline for 7th and 8th Grade
Stanley British Primary School Science Fair

Due Dates:
The week of:

- September 28th – IV, DV and Question Due

- October 5th – Abstract (above dotted line), Materials and Methods and Data Book Due
    - Partner Permission Slip Due (if applicable)
    - Metro Permission Slip Due (if applicable)

- October 19th: Introduction, Works Cited Due

- October 22nd and 23rd: IRB for required Metro Students

- November 16th – Rough Results and Discussion Due

- November 30th - Rough Draft Due In Class

- December 1st - Smoother Rough Draft Due

- December 7th – Checklist Due, Work Week

- **January 11th - Final Project Due (board and data book)**

- January 15th – Metro Forms Due (if applicable)

- **Wednesday, January 20th – SCIENCE FAIR**

- **Friday, February 19th – Metro**

Name(s) _____

Section(s) _____

Science Fair Rubric

_____ **Project Data Book (28 points)**

_____ Cover with name of project, student name, section, and decoration (5 pts)

_____ Sections labeled in data book (3 pts)

- Final Draft
- Rough Draft
- Forms (if needed)

_____ Final Draft of all sections (lab report style) including works cited (10 pts)

- Abstract
- Introduction
- Materials and Methods
- Results
- Discussion
- Works Cited
- Acknowledgements

_____ All rough drafts with teacher comments present (10 pts)

- Abstract and Materials and Methods
- Introduction and Works Cited
- Results and Discussion
- Completed Rough Draft
- Completed Smooth Draft WITH RUBRIC

_____**Title (6 points)**

_____ Creative title is eye catching and reflects the focus of investigation (2 pts)

_____ Scientific title is clear, thorough, and reflects the focus of investigation (2 pts)

_____ Name(s) and section(s) displayed clearly (2 pt)

_____ **Abstract (22 points)**

_____ Bulleted question (2 pts)

_____ Bulleted Goal (I hope to discover…) (2 pts)

_____ Bulleted IV and DV (2 pts)

_____ Bulleted hypothesis in proper format (5 pts)

_____ Bulleted procedure (summary of methods written in sentence form) (2 pts)

_____ Bulleted constants (2 pts)

_____ ***Bulleted trends present (5 pts)*

_____ *Includes a broad statement that sums up the overall findings of your experiment*

_____ Includes a statement that shows the average DV numbers for each version of your IV

_____ Explains what the numbers demonstrate and how that relates to your original hypothesis

_____ ***How do your discoveries during this experiment help people? (2 pts)*

***These will be added AFTER your experiment is complete.*

_____ **Introduction (23 points) (This is a typed paragraph)**

- _____ Clearly states question to be answered (purpose) (3 pts)
- _____ Background information explains relevant scientific concepts (3 pts)
- _____ Previous research relevant to experiment is identified and explained (2 pts)
- _____ Cite sources for background information and previous research (2 pts)
- _____ Explanation of what prompted your interest in this topic (2 pts)
- _____ Hypothesis stated in proper format (5 pts)
- _____ Identifies independent variable and dependent variable (2 pts)
- _____ Explains how independent variable is manipulated (1 pt)
- _____ Explains how dependent variable is measured (1 pt)
- _____ Lists all necessary constants in a sentence (2 pts)

_____ **Materials and Methods (10 points)**

- _____ All materials are listed (2 pts)
- _____ Directions are clear and in step-by step format in complete sentences (5 pts)
- _____ Directions could be followed exactly by another scientist (3 pts)

_____ **Results (20 points)**

- _____ Graph 1 (5 pts)
  - _____ X and Y axis labeled on graph (2 pts)
  - _____ Scientific title and key present on graph (2 pts)
  - _____ Data is presented in appropriate type of graph (1 pt)
- _____ Infographic or Graph 2 (5 pts)
  - _____ IV and DV represented and labeled / X and Y axis labeled on graph (2 pts)
  - _____ Scientific title and key present on graph (2 pts)
  - _____ Data is presented in appropriate type of infographic/graph (1 pt)
- _____ Table (5 pts)
  - _____ IV and DV represented and labeled on table (2 pts)
  - _____ Scientific title present on table (1 pt)
  - _____ Uses at least 3 trials and has averages (2 pts)
- _____ Trends stated in sentence form using averages (5 pts)
  - _____ Includes a broad statement that sums up the overall findings of your experiment (2 pts)
  - _____ Includes a statement that shows the average DV numbers for each version of your IV (2 pts)
  - _____ Explains what the numbers demonstrate and how that relates to your original hypothesis (1 pt)

_____ **Discussion (40 points)**

- _____ Restate your hypothesis (1pt)
- _____ Was your hypothesis correct? (1pt)
- _____ Restate trends (5 pts)
- _____ Explains, scientifically, why you believe these results occurred (5 pts)
- Do your results match any previous research on your topic?
- _____ Explains any outliers in your experiment (5 pts)
- _____ Did your constants ***stay*** constant? How? (5 pts)
- _____ What are 2 errors that may have affected your data in regards to your constants? (3 points)
- _____ Explains how each error may have affected your ***data*** (5 pts)
- _____ What would you do differently next time in order to fix these errors? (2 pts)
- _____ What would you change about your experimental design to make your experiment better if you were to do it again? (5 pts)
- _____ How do your findings help people? (1 pt)
- _____ Name 2 further questions you have now based on your findings (2 pts)

_____ **Works Cited / References (7 points)**

_____ At least 5 sources utilized (5 pts)

_____ In proper MLA format (2 pts)

_____ **Acknowledgements (5 points)**

_____ Thank people who helped you with your experiment – specifically say how each person helped (5 pts)

_____ **Experimental Design (20 points)**

_____ Methods are able to address your scientific question (5 pts)

_____ Conclusions drawn from results are reasonable and correct (5 pts)

_____ Experiment demonstrates originality, thoughtfulness, and meaningfulness (5 pts)

_____ Experiment pushes your scientific thinking and assumptions (5 pts)

_____ **Visual Presentation (25 points)**

_____ Board is formatted in a professional manner (5 pts)

_____ Board has an understandable flow (5 pts)

_____ Board demonstrates care and effort (5 pts)

_____ Experiment is portrayed visually through **photos** of procedure / pieces of apparatus from experiment displayed with board (5 pts)

_____ Board is eye catching (5 pts)

_____ **Other Aspects (30 points)**

_____ Timeliness of Drafts (5 pts)

_____ Overall Effort Demonstrated to Teacher (5 pts)

- Hypothesis, IV, DV, constants, and trends in match in all sections
- Quality of drafts,
- Willingness to implement feedback,
- Effective use of in-class work time

_____ All sections are present and clearly labeled on the board (10 pts)

- Name
- Section
- Title
- Abstract
- Introduction
- Materials and Methods
- Results
- Discussion
- Works Cited
- Acknowledgements

_____ Writing Mechanics (10 pts)

Total:

_____/ 236

Partner Permission Slip
Stanley British Primary School Science Fair

I, _____ give permission for my child, _____, to work with _____ on the Science Fair. I understand that once the students commit to working together, they will remain partners for the entire project. I understand that much of the work for this project will take place of winter break and will require my child to have the ability to meet with their partner during this time.

Parent Signature_____

Student Signature_____

Denver Metro Science Fair Intention Slip

I, _____ acknowledge that my child _____ intends to participate in the Denver Metro Science Fair. We have read through the rules and guidelines on the Denver Metro website to better understand the process and expectations of Metro. I understand that there will be additional work that needs to be completed by the dates listed in the packet in order to participate. I understand that my child and I are ultimately responsible for all paperwork related to the Denver Metro Science Fair. I also understand that if my child misses a due date, they will be asked to focus on the Stanley Science Fair, and Dalton and Paige will no longer be able to sponsor them at Metro. If you as the parent choose to sponsor your child after this point, you, of course, may.

Parent Signature_____

Student Signature_____

**Please note: if your child is an 8th grader, returning this slip does not guarantee them a spot in Metro. Because we are limited on the number of 8th graders we are able to take, there will be additional steps for interested 8th graders to take before they are admitted to the fair.