The Science Project & Science Fair Template Use these science & engineering practices to guide you through an investigation or project.		
Ask questions & define a problem: Pick a question that you want to try answering with your drone	Your Name & Team members	
	2. <u>Develop &amp; use models:</u> Draw a di	agram that shows what you think you will find.
3. Create a draft project title based on your question:		
		4a. Plan your investigation: What are you steps? What will you do to collect the information you need?
4b. Sketch a map showing planned route for your drone to fly and from which directions. If you are taking photos, show the locations of the photos to be taken.		4c. Use Math / Computational Thinking: How you will measure the size of objects and the height of your drone? (Hint: cut a tarp into a circle or square, one-meter
		across – other methods?)







5. <u>Carry out your investigation</u> : Add information about your data in a table. What new questions did you think of while conducting your investigation? Record data about each session and flight. Use your data to answer the question you asked.			
6a. Analyze & Interpret Data: Organize the data – How do they contribute to answering your questions?			
6b. Use Math / Computational Thinking during your analysis: Measure the objects in your photos - are circles actually circles? How do the sizes of objects in photos change? Generate statistics from your data. What patterns do you see?			
7. Construct Explanations & Design Solutions: What have you learned from data that help you answer your project questions? How would you have changed your investigation design?			

8. Engage in argument from evidence: What questions might others ask you? How would you respond and how would you use your data and analyses as supporting evidence for your discussion? 9a. Communicate: Make a Science Fair Display of your project and results Science Fair Display Layout Your questions **Project Title Procedures** 

9b. <u>Communicate & Evaluate</u>: What would you tell your community leaders?

What other data would be useful to evaluate if drones are useful & successful for these types of investigations?

Go online – what information would add to your project?
What other ways could you use this information?