Name:	Grade: Teacher:
Research Plan	1: Use this form for rough draft then type into computer, print and save. Turn in printed copy with completed and signed forms. 50 points. Due Dec. 3 <sup>rd</sup>
<b>Title:</b>	
Statement of t	the Problem (In the form of a question!)
Purpose (The p	ourpose of my project is to show)
Hypothesis (I	believe)
Materials (Lis	
1.	6.
2.	7.
3.	8.
4.	9.
5.	10.
<b>Procedure</b> (L	ist steps you will use to perform experiment. Be precise.)
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	
4 <sup>th</sup>	
5 <sup>th</sup>	
6 <sup>th</sup>	
7 <sup>th</sup>	
8 <sup>th</sup>	
9 <sup>th</sup>	
10 <sup>th</sup>	

<b>Constants</b> What are the variable in your experiment that you will keep the same?	variable in your experiment that you will keep the same?	
Experimental Factor (Independent Variable): What is the variable that you will be experimenting with?		
<b>Dependent Variable:</b> What will you measure? What units of measurement will you use? How will you collect this data?	l 	
<u>Data</u>		
<b>Data Table.</b> On a separate sheet of paper draw an example of the data table you plan to use.		
If your data is 'subjective' you must create a rating system rubric in order to measure. This must be attached to your research plan.		
<b>Graph.</b> On a separate sheet of paper draw an example of the graph you plan to use.  Use: <a href="http://nces.ed.gov/nceskids/createagraph/default.aspx">http://nces.ed.gov/nceskids/createagraph/default.aspx</a>		
Make sure to completely label both the table and graph. You can use "fake" data for now.		
If using a questionnaire survey, you must attach.		
<u>References</u> Research topics, words, concepts, or current events that are related to your problem (project). Website: <a href="http://www.easybib.com/MyBib/view.php">http://www.easybib.com/MyBib/view.php</a> <u>Source 1:</u>		
Title:		
Author or editor:		
Publisher or website (not Google!):		
Volume (encyclopedia or series):		
Pages used (encyclopedia or series):		
Copyright: Date of use for electronic material:		
Source 2:		
Title:		
Author or editor:		
Publisher or website (not Google!):		
Volume (encyclopedia or series):		
Pages used (encyclopedia or series):		
Copyright: Date of use for electronic material:		

## Checklist for Adult Sponsor (1) This completed form is required for ALL projects.

Pro	oject	ect Title:						
1.								
2.		I have reviewed the student's completed Student Checklist (1A) and Research Plan.						
3)		I have worked with the student and we have discussed the possible risks involved in the project.						
4)		The project involves one or more of the following and requires prior approval by an SRC, IRB, IACUC or IBC:						
		☐ Humans	Potentially Hazardous Biological Agents					
		☐ Vertebrate Animals	☐ Microorganisms ☐ rDNA ☐ Tissues					
51	Ø	Items to be completed for	ALL PROJECTS					
-,		☑ Adult Sponsor Checklis	- Ch 11/1					
		☑ Student Checklist (1A)	☑ Approval Form (1B)					
		사람이 되었다. 이번 경기에 되었다면 하는 것이 되었다면 하는 것이 없는데 하는데 하다 없다.	Institutional/Industrial Setting Form (1C) (when applicable after completed experiment)					
			rch Progression Form (7) (when applicable)					
6)	Ad	dditional forms required if	the project includes the use of one or more of the following (check all that apply):					
OÎ.			oproval by an Institutional Review Board (IRB); see full text of the rules.)					
			rm (4) or appropriate Institutional IRB documentation					
			onsent Form (when applicable and/or required by the IRB)					
			n (2) (when applicable and/or required by the IRB)					
			ires prior approval, see full text of the rules.)					
		☐ Vertebrate Animal Form (5A)—for projects conducted in a school/home/field research site (SRC prior approval required.)						
		<ul> <li>□ Vertebrate Animal Form (5B)—for projects conducted at a Regulated Research Institution. (Institutional Animal Care and Use Committee (IACUC) approval required prior experimentation.)</li> </ul>						
		<ul> <li>Qualified Scientist Forr applicable)</li> </ul>	n (2) (Required for all vertebrate animal projects at a regulated research site or when					
		Committee (IBC), see full to						
			Biological Agents Risk Assessment Form (6A)					
		involves the use of fres	Animal Tissue Form (6B)—to be completed in addition to Form 6A when project h or frozen tissue, primary cell cultures, blood, blood products and body fluids.					
		☐ Qualified Scientist Form						
		projects using manure	(3) required for projects involving protists, archae and similar microorganisms, for for composting, fuel production or other non-culturing experiments, for projects using water test kits, microbial fuel cells, and for projects involving decomposing vertebrate					
			tivities and Devices (No prior approval required, see full text of the rules.)					
		☐ Risk Assessment Form	1848 AND THE PROPERTY OF THE P					
		☐ Qualified Scientist Form	n (2) (required for projects involving DEA-controlled substances or when applicable)					

## Student Checklist (1A) This form is required for ALL projects.

	a. Student/Team Leader:	Grade:				
	Email:	Phone:				
	b. Team Member:	c. Team Member:				
2.	Title of Project:	The project events are distortived and the following and mounts to the posts of the following and mounts of the following and				
3.	School: Coatesville Area Senior Hig	h School Phone: 610-383-3735				
	School Address: 1445 Lincoln Hwy E	The section of the color of the				
	Coatesville, PA 19320	Office I print to be Alexander of Council Section 1				
4.	Adult Sponsor:	Phone/Email:				
5.	Is this a continuation/progression from a prev If Yes:	vious year?				
	a) Attach the previous year's  Abstract an	nd 🗆 Research Plan				
	b) Explain how this project is new and different from previous years on ☐ Continuation/Research Progression Form (7)					
6.	This year's laboratory experiment/data collec	tion: (must be stated (mm/dd/yy))				
	12/10/2014					
	12/10/2014	1/10/2015				
	Start Date: (mm/dd/yy)	End Date: (mm/dd/yy)				
7.	Start Date: (mm/dd/yy)	End Date: (mm/dd/yy)				
7.	Start Date: (mm/dd/yy)  Where will you conduct your experimentation	End Date: (mm/dd/yy) n? (check all that apply)				
7.	Start Date: (mm/dd/yy)	End Date: (mm/dd/yy) n? (check all that apply)				
	Start Date: (mm/dd/yy)  Where will you conduct your experimentation	End Date: (mm/dd/yy)  n? (check all that apply)  seld				
8. 1	Start Date: (mm/dd/yy)  Where will you conduct your experimentation  Research Institution	End Date: (mm/dd/yy)  n? (check all that apply)  seld				
8. l	Start Date: (mm/dd/yy)  Where will you conduct your experimentation  Research Institution School Fi	End Date: (mm/dd/yy)  n? (check all that apply)  seld				
8. l	Start Date: (mm/dd/yy)  Where will you conduct your experimentation  Research Institution  School  Fi List name and address of all non-school work s	End Date: (mm/dd/yy)  n? (check all that apply)  seld				
8. I Na Add	Start Date: (mm/dd/yy)  Where will you conduct your experimentation  Research Institution  School  Fi  List name and address of all non-school work s me:  dress:	End Date: (mm/dd/yy)  n? (check all that apply)  seld				
8. I Na Add	Start Date: (mm/dd/yy)  Where will you conduct your experimentation  Research Institution  School  Fi  List name and address of all non-school work some:  dress:	End Date: (mm/dd/yy)  n? (check all that apply)  seld				
8. I Nai Add	Start Date: (mm/dd/yy)  Where will you conduct your experimentation  Research Institution  School  Fi  List name and address of all non-school work s me:  dress:	End Date: (mm/dd/yy)  n? (check all that apply)  seld				

Approval Form (1B)
A completed form is required for each student, including all team members.

a. Stadesit Achilowica,	1. To Be Completed by Student and Parent a. Student Acknowledgment:						
I understand the risks and possible dangers to me of the proposed research plan.							
I have read the Intel ISEF Rules and Guidelines and will adhere to all International Rules when conducting this research.      I have read and will abide by the following Ethics statement							
							Scientific fraud and misconduct are not condoned at any level of research or competition. Such practices include plagiarism, forgery, use or presentation of other researcher's work as one's own, and fabrication of data. Fraudule projects will fail to qualify for competition in affiliated fairs and the Intel ISEF.
Student's Printed Name	provoli I bavo	Signature	etan	Date Acknowledged (mm/dd/y (Must be prior to experimentation the risks and possible dangers involved in the Resea			
Plan. I consent to my							
Parent/Guardian's Printed N	ame	Signature		Date Acknowledged (mm/dd/y (Must be prior to experimentation			
biological agents)  The SRC/IRB has carefully studied this project's Research Plan and all the required forms are included. My signature indicates approval of the Research Plan before the student begins experimentation.  SRC/IRB Chair's Printed Name				This project was conducted at a regulated research institution (not home or high school, etc.), was reviewed and approved by the proper institutional board before experimentation and complies with the Intel ISEF Rules. Attach (1C) and required institution approvals (e.g. IACUC, IRB).			
SRC/IRB Chair's Printed Name				CDC Chairle Drinted Name			
SRC/IRB Chair's Printed Name				SRC Chair's Printed Name			
		oval (mm/dd/yy) o experimentation.)					
Signature	(Must be prior to	o experimentation.)	(F				
	(Must be prior to	experimentation.)  RC Approval  d Before Compe	titio	Signature Date of Approval (mm/dd/			
Signature  3. Final Intel ISEF Affilia  SRC Approval After Experin	(Must be prior to ated Fair S mentation and neres to the ap	experimentation.)  RC Approval  d Before Compe	titio	Signature Date of Approval (mm/dd/			

Risk Assessment Form (3)

Required for projects using hazardous chemicals, activities or devices and microorganisms exempt from pre-approval. Must be completed before experimentation.

and the second property actions for each off principal to
(s) in collaboration with Designated Supervisor/Qualified tional page(s) may be attached.)
pre-approval (see Potentially Hazardous Biological Agent rule devices that will be used.
g in my experiment that may be hazardous or pose some ris
is project.
•
Philosophia Sanda Panaga Makina alipa
dures that will be used to reduce the risks.
age my experiment are
In the second se
be used (when applicable).
HET ONE THE REPORT OF THE PARTY
ated Supervisor (or Qualified Scientist, when applicable): as and procedures described above. I certify that I have reviewed the
ature Date of Review (mm/dd/y
Phone or email contact information