JERFSA Research Project Directives & Schedule Dr. Thornton

(edited 2024)

High school research projects have quickly become the tipping point for college acceptances and scholarships (Forbes, 2021). Universities are increasing undergrad research programs (US News, 2020) and therefore seeking students already well versed in format and scientific reasoning. Similar to a Science Fair Project, performing an independent research project assists students in gaining skills such as: discernment, reasoning, analysis, synthesis, scientific writing skills, and quantification of information collected. This experiential brain-based method can also include community-based projects that involve professionals in the field and ultimately presenting at a professional conference.

Normally performed in one semester, this project has been extended to a year-long endeavor. As a JERFSA student, this project can be honed and perfected each year culminating in a Senior Project.

To further assist in the process students can sign up for one on one guidance. There are also numerous resources and examples on https://sites.google.com/palmbeachschools.org/drthorntonjerfsa/home (listed below as Section III and corresponding #'s are specific examples for each assignment)

Project Portion/Description/Resources* *SUBJECT TO CHANGE	Due Date*
General research idea	AUG
 Lots of class discussion 	
 Idea needs approval for ease of data collection 	Checl
o Each student is to write their own paper	Agend
THERE ARE EXAMPLES OF COMPLETED LABS AND PAPERS	&
https://sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	Googl
Section III EXAMPLES	Class
o #6 Entire Research Papers	room
o #7 Examples CLASS LABS	
THESIS and Five relative journal articles (freshman use valid web sites) and a Bibliography App Submit in format found on: https://sites.google.com/palmbeachschools.org/drthorntonjerfsa/home • Section III EXAMPLES o #1 Thesis and 5 Journals (Freshman use web sites) o Will have class time to give a head start-complete at home SIGN UP if you need one on one	Checl Agend & Googl Class room
Initial Introductory paragraph with corrected thesis and sources put in a bibliography with APA format https://sites.google.com/palmbeachschools.org/drthorntonjerfsa/home Section I In Italian and the second sec	Checl Agend & Googl Class room
o Will have class time to give a head start-complete at home SIGN UP if you need one on one guidance	

_	sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	s
•	CORRECTIONS (NO CLASS TIME FOR THIS)	
	o Open returned, graded paragraph	Ch
	 o Make a COPY from the FILE tab and give it a current date o MAKE CORRECTIONS returned to you from me 	Age
	o MAKE CORRECTIONS returned to you from me o Add NOTES from sources	
	Section III EXAMPLES	Go
	o #3 Paragraph and Notes	CI
	o REMEMBER AN APPROPRIATE BIBLIOGRAPHY	ro
	o Will have class to give a head start-complete at home SIGN UP if you need one on one guidance	
	BECOME A THEMED OUTLINE	
ttps://	sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	S
•	Assignment to date	
	o Intro paragraph and bibliography should now be perfect	Ch
	o Class time for directions on how to turn notes into a themed outline (use citations in outline)	Ag
	o Two to four themes required (approx. one paragraph per theme)	
	Less than two inadequate more than four too much information Control Control	Go
_	 Final Literature review is approximately three paragraphs Section III EXAMPLES 	CI
•	o #4 Rewritten initial paragraph and Themes from Notes (Example #2 is best)	ro
ompl	eted Introductory paragraph, literature review in paragraph form (WITH CITATIONS), and APA	\top
	raphy (Freshman use links)	
ttps://	sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	0
•	Section I	
	o I. Laboratory Research Format	CH
	o #1 & #2 WORKSHEET to help with format	Ag
	o Complete in GOOGLE DOCS in paragraph form	
•	Section II	Go
	o #2 ADDITIONAL information on how to write a: Literature Review	CI
•	Section III EXAMPLES	rc
	o #6 Entire Research Papers	
	o #7 Examples CLASS LABS	
	TES of completed Introductory paragraph, literature review in paragraph form (WITH	
	ONS), and APA Bibliography (Freshman use links)	
ttps://	sites.google.com/palmbeachschools.org/drthorntonjerfsa/home CORRECTIONS (NO CLASS TIME FOR THIS)	
•	o Open returned, graded paper	
	o Make a COPY from the FILE tab and give it a current date	
	o MAKE CORRECTIONS returned to you from me	
•	Section I	0
-	o I. Laboratory Research Format	N
	o #1 & #2 WORKSHEET to help with format	
	o Complete in GOOGLE DOCS in paragraph form	Cł
	Section II	Ag
•	o #2 ADDITIONAL information on how to write a: Literature Review	
•	Section III EXAMPLES	Go
•		CI
•	o #6 Entire Research Papers	
•	o #6 Entire Research Papers o #7 Examples CLASS LABS	r
•	·	ro
• • • Se	o #7 Examples CLASS LABS	ro
• Se	o #7 Examples CLASS LABS SUBMIT TO TURN IT IN and HAVE TWO CLASSMATES PEER REVIEW PAPER	ro
• Se	o #7 Examples CLASS LABS SUBMIT TO TURN IT IN and HAVE TWO CLASSMATES PEER REVIEW PAPER ction II RESEARCH NOTES AND SUPPLEMENTAL INFORMATION	ro

	o TURN IT IN DIRECTIONS	
•	50% of MIDTERM	
•	You can always turn something in early!!!	
	METHODS	
https://	/sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	
•	Lots of class discussion	
•	Idea needs approval for ease of data collection	NOV
•	Some of you have already begun to collect data	""
•	Section I	Check
	o I. Laboratory Research Format	Agenda
	o #1 & #2 WORKSHEET to help with format	& &
	o Complete in GOOGLE DOCS in paragraph form	Google
•	Section II	Class-
	o #2 ADDITIONAL information on how to write a: Literature Review	room
•	Section III EXAMPLES	100
	o #6 Entire Research Papers	
	o #7 Examples CLASS LABS	
	MAY ALREADY BE COLLECTING DATA	
	CT Intro, Literature Review –REWRITE methods in appropriate form	
<u>h</u> 1	ttps://sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	
•	CORRECTIONS (NO CLASS TIME FOR THIS)	
	o Open returned, graded paper	
	o Make a COPY from the FILE tab and give it a current date	
	o MAKE CORRECTIONS returned to you from me	NOV
•	Section I	NOV
	o I. Laboratory Research Format	Check
	o #1 & #2 WORKSHEET to help with format	Agenda
	o Complete in GOOGLE DOCS in paragraph form	Agenua &
•	Section II	Google
	o #2 ADDITIONAL information on how to write a: METHODS	Class-
•	Section III EXAMPLES	room
	o #6 Entire Research Papers	100111
	o #7 Examples CLASS LABS	
	50% of MID TERM	
	SUBMIT TO TURN IT IN and HAVE TWO CLASSMATES PEER REVIEW PAPER	
	50% of MID TERM which is 20% (10%) of final semester grade	
	MAY ALREADY BE COLLECTING DATA	
COLLEC	CT DATA	
	WILL BE RANDOM DATA CHECKS TO MAKE SURE YOU ARE COLLECTING DATA	NOV
•	Collect Data, organize,	to
•	If needed, find mentor to help analyze data in appropriate form	JAN
RESUITS O	OF ALL DATA COLLECTED	
	/sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	
<u> </u>	Results in a pictorial form (graphs, stats from Excel, etc.)	
	o Lots of class discussion	JAN
	o Result Idea needs approval	3014
	Section I	Check
	o I. Laboratory Research Format	Agenda
	o #1 & #2 WORKSHEET to help with format	&
	o Complete in GOOGLE SHEETs and put in Research paper in Google DOCS	Google
	o WE HAVE DONE ELECTRONIC GRAPHING AND TABLE MAKING IN CLASS	Class-
	Section III EXAMPLES	room
	o #6 Entire Research Papers	
	o #7 Examples CLASS LABS	
<u> </u>		

DISCUSSION AND CONCLUSION	
https://sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	
SUBMIT TO DATE: PERFECTED INTRO, LIT REVIEW, METHODS, DATA (if applicable), RESULTS	
ADD Discussion and Conclusion	
o One paragraph for each	
o LOTS OF CLASS DISCUSSION and examples with labs	
o REMEMBER that Discussion that includes a comparison/contrast of results to information in introducti	on
Section I	JAN
o I. Laboratory Research Format	
o #1 & #2 WORKSHEET to help with format	
o Complete in GOOGLE DOCS in paragraph form	
Section III EXAMPLES	
o #6 Entire Research Papers	
o #7 Examples CLASS LABS	
PERFECTED PAPER	
https://sites.google.com/palmbeachschools.org/drthorntonjerfsa/home	
CORRECTIONS (NO CLASS TIME FOR THIS)	
o Open returned, graded paper	
o Make a COPY from the FILE tab and give it a current date	
o MAKE CORRECTIONS returned to you from me	
Section I	FEB
o I. Laboratory Research Format	
o #1 & #2 WORKSHEET to help with format	Check
o Complete in GOOGLE DOCS in paragraph form	Agend
Section III EXAMPLES	&
o #6 Entire Research Papers	Googl
o #7 Examples CLASS LABS	Class
SUBMIT TO TURN IT IN and HAVE TWO CLASSMATES PEER REVIEW PAPER	room
Section II RESEARCH NOTES AND SUPPLEMENTAL INFORMATION	
• d. Peer Reviews	
o How to Peer Review a Paper	
o EXAMPLE of a Review	
o TURN IT IN DIRECTIONS	
FINAL PAPER	
• 50% of Final which is 20% (10%) of final semester grade	MAR
You can always turn something in early!!!	