Hamah	Sprague	
		Print Name

3/13/24 Data

JEFFERSON SCIENCE ASSOCIATES, LLC/ THOMAS JEFFERSON NATIONAL ACCELERATOR FACILITY

JSA/Jefferson Lab High School Summer Honors Program Application

Address: 506 Las Gaviotas Blud.	Telephone No. 360 689 9244
Che sapeake, VA 23322	Date of Birth: 12/23 /2006
	e-mail Address: hsprague 314@ smail.com
Citizenship*: <u>U.S. Citizen</u>	
*Participants must be U.S. citizens or to Perma of both sides of the alien registration card to	anent Resident Aliens. The latter requires a copy to be submitted WITH THIS APPLICATION.
Parent/Guardian Contact Information	
Name: Suzanne Sprague	
Phone: 360 \$51 3/53	
email: sasprague @ yahoo.com	
Parent/Guardian Signature and Date:	
I am aware that my minor dependent is submitting an applicate Program, beginning June 26 to August 4, 2023. I understand expected to fulfill the attendance and program requirements.	ntion for the JSA/Jefferson Lab High School Summer Honors that transportation is not provided and participants are
How did you learn about this program? Word - of move	th
Have you attended any educational programs at Jefferson Lab	?Yes
If yes, describe or list which program(s):	
Have you been previously employed by JSA/Jefferson Lab? _	YesNo Dates:
Do you have any relatives working at JSA/Jefferson Lab?	YesNo
Name:	
DEPENDENTS OF ISA/IFFFERSON LAR EMPLO	YEES ARE NOT ELIGIBLE FOR THIS PROGRAM

Handh Sprague		3/13	124
Print Name			Date
Name and Location of High School: 25cm S	nith High School	, chesapeake, VA	23370
Counselor's Name: La Guita Riddick		Current Grade Level:	11
		Grade Point Average:	1.4250
List the courses you have taken and your grades in	the following subject ar	eas:	
Science	Math	Е	nglish
Sohns Hopkens CTV Honors Biology (A-)* AOP	S Geometry (A)*	Honors English	Q (A)*
AP Chanistry (A)* AoPS	Intermediate Algebra	(A)* Honors/PreIB	English to (A)
AP Biology (A) * AoP:	S Precalculus (A)	IB English	1 (A)
Honors Physics (A) Anp.	S AP Galculus BC (A)*	
IB Physics I (A) IBA			
tindicates that the grade is a P on Other classes and/or special interests JSA/Jefferso	my school trascript n Lab may consider relev	sive I took the cost	ese outside of public school
AP computer Source A (A), A	ops Intermediate	Python (A) Curient	ly taking IB
Theory of Knowledge. I have	a special interes	t in machine lea	arning; I have statical
this on my own and did t	he Inspirit AI	survey Scholars progr	on in 2027.
I have also taken ADPS' Number		unting and Probability	corrses (A for each.)
What computer operating systems do you have ex			
If this question refers to ope	rating systems, the	Windows and Mac OS	. If it refers to
important programs, then I ha	me experience with	Excel, Fire Alpace la	me other graphic
design soffware), the full Google	suite, Workday, Gray	hical Analysis, and 1	Votion.
What programming languages do you have experie	ence with?		
I have extensive experience with	. Python, including	data science an	id madrine learning
libraries such as pundas, numps,	matplotlib, and he	ras. I am also pro	ficient in Sough
Sava Script (primarily with Processing 5			×

Hamah Spe	agul					3/12	124	
•	9	Print Name					Date	
List any academi	c or commu	nity service awards	s or special recog	gnition you have	receive	d:		
3,2 P1:2	ie in	Shills USA	frogramming	competition	for	Germony	D.O EA	region
35 AL	T , 150	10 PSAT						
President's	Award 1	for Esucational	Excellence					
AP Scholar	with c	istinction						
List any extracur	ricular activi	ties you are involv	ed in, especially	those in which y	ou hav	e a leadershi	p role:	
yarsity cro	SS coun	rry, Varsity	temis (I	an the tear	n cap	otain), M	Jutional H	onor Society
vice Presid	dat, Scho	lastic Bowl	(we up re	gionals and wan	r to	State this	s year),	Science
National Ho	onar Socie	ty, Debate	team, creativ	e writing (lub	, and	the IB	Leadersh	ip committee's
(ecruit men	t team	•						
Outline any prev	ious work ex	perience, includin	g volunteer work	χ:				
Employe	er	Supervisor		ur Responsibilitie		Date		Phone
AI Blocky	2	Brendan Mah	writing	educational AI	contin	- 4/23 - P	resent mo	hbrendan@ smail. con
University of	Washington	Kathirn Higgir	s Robinson	center summer	TA	2217 5255	32023 7	57-509-3435
Patch Middle S	School M	errillon Watson	volunteer T	1 for Beginning	Strings	9/21 - 4/2	2 +49	171 2874669
Provide two adul has taught you at		we may contact (n	ot family membe	ers), at least one o	of whor	n is a math o	or science to	eacher who
		Name					Phone	
Daniel	Shomaker			da	niel. S	homaker 6	Coschools	Lom
Lynn	Wasineror			lyn	n. Was	inger @ c	pschools, c	em .

*HAVE THE TWO ADULT REFERENCES COMPLETE REFERENCE FORMS AND RETURN THEM TO YOU IN SEALED ENVELOPES.

Lynn Wasinger

ONE OF THE REFERENCES **MUST BE** A MATH OR SCIENCE TEACHER WHO HAS TAUGHT YOU AT SCHOOL.

Print Name

Date

Use the space below to describe what you expect to gain from an experience at Jefferson Lab - how will it be a benefit to you? (use up to one additional page, if necessary)

research, experience IB student I have some Jeffeson support prov. Le matter to scientific adjunctions with experts is incredibly will actually something I would love innose throughout my Fe. on intellisence become researcher a glimpse life 10

Use the space below to indicate what contributions you believe you would make to Jefferson Lab. What special skills or attributes would you bring to the organization?

sought out extra challenge be it an hard. I have alute/s to work top of interning 00 my regular conselocal FOR AI Blacks "Free time" I'm Diploma Program. or taking Work both independently and in groups, especially think my knowledge of that various programming valve - it can provide 5 my passion precisely because I my experiences as National Honor Society UP, an IB student, symmer program TA (I helped with a physics clos most recently). I've communication stills including presenting in Front of groups of NOO, collaborating on dealy explaining complex topics. provects, and

JSA/Jefferson Lab High School Summer Honors Program Student Reference Form

JSA/Jefferson Lab High School Summer Honors Program. Please complete this reference form, seal it in an envelope, and sign across the flap before returning it to the student. How do you know this student? IB_ Higher Level Math Teacher. How long have you known this student? IB_ Higher Level Math Teacher. How long have you known this student? IB_ Higher Level Math	Hannah		has identified					
How do you know this student? 18 Higher Level Math Teacher.			Program. Please co	omplete this ref	ference form	, seal it in	an envelope.	, and sign
How long have you known this student?	-	-						
Please rate this student's academic performance in comparison to his/her peers: superior good average poor Please rate this student's overall character in comparison to his/her peers: superior good average poor On a scale of 1 (lowest) to 5 (highest), rate the student on the following:				h Teache	R			
Please rate this student's overall character in comparison to his/her peers: superior good average poor On a scale of 1 (lowest) to 5 (highest), rate the student on the following:	How long have y	you known this student?	1 year					
On a scale of 1 (lowest) to 5 (highest), rate the student on the following:	Please rate this s	tudent's academic performance in	n comparison to hi	s/her peers:	superior	good	average	poor
5 self discipline 5 originality 5 academic ability 5 ability to follow directions 5 leadership 5 integrity 5 initiative 5 independence 5 professionalism 5 cooperation 5 reliability 5 work ethic Please add any information you would like us to consider in evaluating this student. Su attach letter 5 work ethic 5 work ethic 5 work ethic 6 work ethic 7 work ethic 8 work ethic 9 work ethic 10 work ethic 11 work ethic 12 work ethic 13 work ethic 14 work ethic 15 work ethic 16 work ethic 17 work ethic 18 work ethic 19 work ethic 19 work ethic 10 work ethic 10 work ethic 10 work ethic 10 work ethic 11 work ethic 12 work ethic 13 work ethic 14 work ethic 15 work ethic 16 work ethic 17 work ethic 18 work ethic 18 work ethic 19 work ethic 19 work ethic 10 work ethic 11 work ethic 12 work ethic 13 work ethic 14 work ethic 15 work ethic 16 work ethic 17 work ethic 18 work ethic 18 work ethic 19 work ethic 10 work ethic	Please rate this s	tudent's overall character in com	parison to his/her p	peers: (superior	good	average	poor
5 ability to follow directions 5 leadership 5 integrity 5 initiative 5 independence 5 professionalism 5 cooperation 5 reliability 5 work ethic Please add any information you would like us to consider in evaluating this student. Ste attach letter 5	_		ident on the follow	-		Ę		
5 initiative 5 independence 5 professionalism 5 cooperation 5 reliability 5 work ethic	2	_ self discipline		originality	***************************************		academic	ability
5 cooperation 5 reliability 5 work ethic Please add any information you would like us to consider in evaluating this student. Su attach letter	5	_ ability to follow directions		leadership	Mark Colores		integrity	
Please add any information you would like us to consider in evaluating this student. Ste attach letter	5_	initiative	5	independence	e	5	profession	nalism
su attach letter	5	_ cooperation	5_	reliability	_	5	work ethic	С
Please indicate one of the following:		·						
I recommend this student without reservation I recommend this student with reservation	Please indicate o	I recommend this student with	hout reservation	4	_			
I recommend this student I do not recommend this student*					I do not	recomme	end this stude	ent"
Print Name: Lynn Marie O. Wasinger Position: Mathematics Teachere Signature: Date: 3/14/24 School: Oscar F Smith HS	Print Name:	ynn Marie O. Wasi Kasıryer	nger 1	Position:			Teacher	

Thank you for your cooperation.

I am pleased to write this letter of recommendation for Ms. Hannah Sprague. She is a wonderful young woman, as well as an exceptionally strong mathematics student. I believe Hannah has the qualities that will allow her to flourish within your program.

I have the pleasure of currently teaching Hannah IB Applications & Interpretations Higher Level Year 1. The Mathematics Applications & Interpretations HL course is the highest level of mathematical study offered by the IB Diploma Program. It is a 2-year curriculum that covers a variety of mathematical topics at the collegiate level. It is an extremely difficult course of study that constantly pushes students in the development of their mathematical abilities. Hannah has never shied away from the difficulty of the coursework. As evidenced by her grades, Hannah worked very hard to correctly complete her work, submitting assignments that are clear, concise, and accurate.

However, grades are not a focus for Hannah. Her high scores are a natural consequence of her pursuit of understanding. Hannah is not satisfied with merely computing an answer, she wants to know the reasoning. She consistently analyzes how the new concept relates to previous knowledge, and how it can be used in other applications. Many of these applications are outside the scope of our coursework. I have watched her independently examine connections with fields such as Computer Programming and Artificial Intelligence.

Hannah's inquisitive nature is not limited to Mathematics. Hannah is pursuing her International Baccalaureate Diploma, and in doing so has taken on the task of going above and beyond the normal coursework required for high school students. This program is the most rigorous course of study offered in the state of Virginia. For example, in IB Applications & Interpretations HL, this includes developing a mathematical analysis covering a topic of the student's choosing. This independent research paper, along with the comprehensive international exams, is completed in addition to the accelerated traditional coursework. Hannah will be completed similar studies in Higher Level English, Higher History, Foreign Language, Art and Science. Hannah is committed to a well-rounded education, recognizing the connection between all the academic fields of study. This type of determination and self-direction shows a strong commitment to her education.

Furthermore, a significant portion of the IB program involves working corporately to solve problems. Hannah can confidently assert her own opinions while still respecting the opinions of her peers. Hannah naturally emerges as a leader during group projects without being an overbearing force within a group. In this way, she is an integral part of establishing a positive classroom atmosphere.

As Hannah's high school career has progressed, it is obvious she has been able to maintain this level of motivation. As evident in her resume, she has been able to balance academics and extracurricular activities without sacrificing success in either area. Hannah tries to give her very best to every activity in which she participates.

Hannah's strong academic abilities, commitment to education, natural leadership abilities, and inquisitive nature will enable her to excel in whatever path she chooses. Not only will she be an asset while she is enrolled, but Hannah will also be an outstanding representative of your program for years to come.

Sincerely,
Lynn Marie Overton Wasinger, NBCT
IB Mathematics Teacher
Oscar F. Smith High School

JSA/Jefferson Lab High School Summer Honors Program Student Reference Form

HANNAH	SPRAGUE h	as identified	I you as a reference	on his/h	er applica	tion to partic	ipate in the
	b High School Summer Honors Progra fore returning it to the student.						
How do you know	v this student? TEACHER - Bo	TU Hom	sees Physics	and i	IB	PHYSIC	ś
How long have yo	ou known this student? 19 Mon	17215					
Please rate this st	udent's academic performance in comp	parison to h	is/her peers: sup	erior	good	average	poor
Please rate this st	udent's overall character in comparison	n to his/her	peers: Sup	erior>	good	average	poor
On a scale of 1 (lo	owest) to 5 (highest), rate the student of	on the follow	ving:				
5	self discipline	5	originality		5	academic	ability
5	ability to follow directions	5	leadership	_	5	integrity	
5	initiative _	5	independence		5	profession	nalism
5	cooperation	5	reliability		5	work ethi	с
THE ART E	F PROBLEM SOLVING" TO LE	ARN C	ALCULUS. I	u CL)	×55 51	IE OFTE	IN ASKS
Please indicate or	WE ARE DICCOVERING. ne of the following:						
	I recommend this student without re	eservation	Management	I recom	mend this	student with	reservation*
	I recommend this student		 	I do not	t recomme	end this stude	ent*
* If you have	reservations or do not recommend the	student, ple	ase explain:				
Print Name:	SANIEL SHOMAKER		Position: Puy Date: 3/	13/2	TEXCHE	n_	
School: O	SCAR SMITH HIGH SCHOOL	L					

Thank you for your cooperation.