

Directions: After the teacher draws your name out of a jar, choose a scientist from a list below that has not already been chosen. This will be the scientist you will research, write about and produce a showcase activity.

Earth and Environmental Science	Social Science	Space Science	Life Science	Physical Science
Mary Anning	Joyce Brothers	Jocelyn Bell Burnell	Virginia Apgar	Marie Curie
Florence Bascom	Dorthea Dix	Annie Jump Cannon	Elizabeth Blackwell	Irene Joliot-Curie
Rachel Carson	Dian Fossey	Helen Hogg	Jewel Plummer Cobb	Stephanie L. Kwolek
Anna B. Comstock	Birute Galdikas	Maria Mitchell	Rosa Eignmann	Marie Goeppart Mayer
Marjory Stoneman Douglas	Jane Goodall	Ellen Ochoa	Gertrude B. Elion	Chien Shiung Wu
Sylvia Earle	Mary Leakey	Sally Ride	Dr. Ida Hyde	Sau Lan Wu
Maria Tharp	Margaret Mead	Judy Resnik	Rita Levi-Montaloni	
	Maria Montessori		Barbara McCormick	
	Elisabeth Kubler-Ross		Lise Meitner	

FACT FINDING ORGANIZATIONAL CHART PAGE 1

Directions: Use three different sources to complete the organizational chart about your scientist.
Remember to write *not found* if the information was not found in the source instead of *no*.

NAME OF SCIENTIST:			
Complete 50 of the 75 boxes for completion	Name of Source # 1	Name of Source # 2	Name of Source # 3
Date of Birth			
Date of Death			
Name(s) of Parent(s)			
Parent Occupation(s)			
Sibling Information			
Childhood Home(s)			
Education: Elementary School			
Education: Jr. High and High School, Diplomas?			
Education: College degrees? Diplomas?			
What jobs did/does this scientist had?			
Marriage(s): Was this scientist ever married?			
If they were married what did/does their spouse do? Name.			
Children: Did/does this scientist have children? Names.			
Did/does this scientist teach at an institution? Name.			

FACT FINDING ORGANIZATIONAL CHART PAGE 2

Directions: Use three different sources to complete the organizational chart about your scientist.
Remember to write *not found* if the information was not found in the source instead of *no*.

	Name of Source # 1	Name of Source # 2	Name of Source # 3
Did/does this scientist have any famous relatives?			
Why is this scientist famous? Did they discover or invent something?			
What field of science does this scientist work in?			
Did your scientist write any books?			
Are there any books written about your scientist?			
Are there any movies about your scientist?			
Did your scientist have a hero or mentor that helped them?			
How did your scientist deal with success?			
How did your scientist deal with failure?			
Interesting and/or unusual facts about your scientist.			
Did your scientist win any special awards and/or prizes?			

Showcase Product Choice Chart for Science Class

<p>Directions: First complete the fact finding organizational chart about your scientist. Second, choose at least one activity with a star from the chart below to complete for science class. Third, use extra time to complete any additional products that interest you.</p>			
<p>Row 1 Logical-Mathematical</p>	<p>Make a diagram or flowchart related to your scientist and/or their work. *</p>	<p>Make a Venn diagram comparing and contrasting your chosen famous woman scientist to another famous woman scientist. *</p>	<p>Prepare a math lesson for your class relating to the work of your scientist.</p>
<p>Row 2 Body-Kinesthetic</p>	<p>Prepare a demonstration or experiment relating to your scientist.</p>	<p>Learn a dance from representative of the life period of your scientist.</p>	<p>Block and stage a play about your scientist.</p>
<p>Row 3 Linguistic</p>	<p>Write song lyrics and/or a poem about your scientist's life and work. *</p>	<p>Write a children's book about your scientist for a Kindergarten- or first-grade class. *</p>	<p>Write a play about your scientist. *</p>
<p>Row 4 Spatial</p>	<p>Create a bulletin board, collage, mural or diorama of your scientist's life and work for public display. *</p>	<p>Illustrate your children's book about your scientist or a classmate's book about their famous scientist.</p>	<p>Create a PowerPoint presentation about the life and life's work of your scientist. *</p>
<p>Row 5 Musical</p>	<p>Write a debate relating to an issue that your scientist faced.</p>	<p>Find and listen to the music from the era of your scientist.</p>	<p>Prepare a music DVD for your power point presentation about your famous scientist or the presentation of a classmate's power point.</p>
<p>Row 6 Interpersonal</p>	<p>Make a survey about women scientists to give to five elder people.</p>	<p>Talk to a current scientist about what they do every day, and how they feel about it. Compare your activities and feelings with others.</p>	<p>Lead a class discussion about your scientist and/or an issue they faced.</p>
<p>Row 7 Intrapersonal</p>	<p>Make a Venn diagram comparing yourself to your famous scientist. *</p>	<p>Check off your abilities on a scientific processing skills list.</p>	<p>Make an academic plan of science classes you will take in high school.</p>

STUDENT TERM PAPER RUBRIC

Directions: First, complete the fact finding organizational chart about your scientist. Second, use the guidelines below to help organize your paper for English class.		
Did you fill in at least 50 boxes on your organizational chart? (You must do this before you begin writing your paper)	YES	NO
Did you find information from at least 3 different sources for your organizational chart? (You must do this before you start writing your paper)	YES	NO
Did you mount your organizational chart(s) on colored paper or card stock?	YES	NO

Intro Paragraph 1	*Birth *Why they are famous *Field of Science they work(ed) in *Awards	YES	NO
Paragraph 2	*Childhood Information *Childhood Family *Famous Relatives	YES	NO
Paragraph 3	*Schooling and Education Information	YES	NO
Paragraph 4	*Adult Family Information (spouse, children)	YES	NO
Paragraph 5	*Job/Employment/Mentor(s) and Hero(s)	YES	NO
Paragraph 6	*Book(s) your scientist wrote *Books about your scientist *Movies about your scientist	YES	NO
Paragraph 7	*How your scientist dealt with success and/or failure	YES	NO
Closing Paragraph 8	*Death (if applicable) *Final comments regarding your scientist	YES	NO

Did you give your paper a title?	YES	NO
Did you indent each paragraph?	YES	NO
Did you use spell check and correct errors?	YES	NO
Does each paragraph have at least 4 sentences?	YES	NO
Is your paper at least 200 words?	YES	NO

TEACHER RUBRIC FOR EIGHT STUDENT VISUAL AID PRODUCTS WITH STARS

Type of Student Visual Aid Product: (student's must complete at least one from the following eight)

diagram/flowchart Venn diagram (2 scientists) play song or poem
 children's book Venn diagram (with you) PowerPoint presentation
 bulletin board, collage, mural or diorama

Required Elements	4	3	2	1
The 5 W's: (who, what, when, where, why or how)	The visual aid product includes all 5 W's.	The visual aid product includes 4 W's.	The visual aid product includes 3 W's.	The visual aid product includes 2 or 1 W's.
Content Amount: Accurate Facts (includes 5 W's)	Product includes 12 or more accurate facts about the scientist.	Product includes 10 or 11 accurate facts about the scientist.	Product includes 5 – 9 accurate facts about the scientist.	Product includes 4 or less accurate facts about the scientist.
Language Mechanics Spelling	Product contains 0 errors in language, mechanics and spelling	Product contains only 1 or 2 errors in language, mechanics and/or spelling	Product contains 3–5 errors in language, mechanics and/or spelling	Product contains 6 or more errors in language, mechanics and/or spelling
Presentation	Student understands the content and delivers it fluently with loud voice and 0 ummms or mumbles	Student understands the content and delivers it fluently with loud voice and 2 or less ummms or mumbles	Student understands the content and delivers it fluently with loud or medium voice and 3–5 ummms or mumbles	Student does not understand the content or delivers content with soft voice and 6 or more ummms or mumbles
On Time	Product is complete and turned in on time	Product is complete and turned in 1 day late	Product is complete and turned in 2 days late	Product is incomplete OR turned in 3 or more days late
TOTAL SCORE	_____	_____	_____	_____

STUDENT REFLECTION PAGE 1

Directions: Answer at least 5 of the 10 components on Student Reflection page 1.
List two characteristics you share with your scientist. 1. _____ 2. _____
List one characteristic where you are different than your scientist. 1. _____
List and explain one habit your scientist exhibited to complete their goals. 1 _____
List one habit you have that would help you if you choose to be a scientist. 1. _____
Would you enjoy having a career in science?
Tell about the one part of your scientist’s story that impressed you the most.
Tell about one lesson you learned from studying about the life of your scientist.
Would you do anything different with your product if you completed this assignment again? What?
Would you do anything different with your research paper if you completed this assignment again? What?
What was the most difficult part of the assignment for you to complete?

STUDENT REFLECTION PAGE 2

Directions: Answer at least 5 of the 10 questions on Student Reflection page 2.	
Scientific Investigations Use a Variety of Methods	<p>What question was your scientist trying to answer?</p> <p>What methods or techniques did your scientist use?</p>
Scientific Knowledge is Based on Empirical Evidence	What tools and technology did your scientist use to make accurate measurements and observations?
Scientific Knowledge is Open to Revision in Light of New Evidence	Did your scientist change how society explains an area of science due to their research?
Scientific Models, Laws, Mechanisms, and Theories Explain Natural Phenomena	Did your scientist complete any tests to prove their theory?
Science is a Way of Knowing	What new knowledge did your scientist contribute to society?
Scientific Knowledge Assumes an Order and Consistency in Natural Systems	Did your scientist work with any laws of nature?
Science is a Human Endeavor	<p>What culture does your scientist represent?</p> <p>Did your scientist work in a team, with a partner, or alone?</p>
Science Addresses Questions About the Natural and Material World	What scientific evidence did your scientist use to answer their question?

