

# Ada S Ideas The Story Of Ada Lovelace The World S

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*Enchantress of Numbers* - Jennifer Chiaverini 2017-12-05

New York Times bestselling author Jennifer Chiaverini illuminates the life of Ada Byron King, Countess of Lovelace—Lord Byron’s daughter and the world’s first computer programmer. The only legitimate child of Lord Byron, the most brilliant, revered, and scandalous of the Romantic poets, Ada was destined for fame long before her birth. But her mathematician mother, estranged from Ada's infamous and destructively passionate father, is determined to save her only child from her perilous Byron heritage. Banishing fairy tales and make-believe from the nursery, Ada’s mother provides her daughter with a rigorous education grounded in mathematics and science. Any troubling spark of imagination—or worse yet, passion or poetry—is promptly extinguished. Or so her mother believes. When Ada is introduced into London society as a highly eligible young heiress, she at last discovers the intellectual and social circles she has craved all her life. Little does she realize how her exciting new friendship with Charles Babbage—the brilliant, charming, and occasionally curmudgeonly inventor of an extraordinary machine, the Difference Engine—will define her destiny. *Enchantress of Numbers* unveils the passions, dreams, and insatiable thirst for knowledge of a largely unheralded pioneer in computing—a young woman who stepped out of her father’s shadow to achieve her own laurels and champion the new technology that would shape the future.

*Ada* - Dorothy Stein 1987

Uses excerpts from letters, memoirs, and documents to recreate the life of Ada Byron, daughter of the English poet, and discusses her contributions to mathematics and her friendships with the leading mathematicians of the period

*Ada Byron Lovelace and the Thinking Machine* - Laurie Wallmark 2015  
Offers an illustrated telling of the story of Ada Byron Lovelace, from her early creative fascination with mathematics and science and her devastating bout with measles, to the ground-breaking algorithm she wrote for Charles Babbage's analytical engine.

**Ada's Ideas** - Fiona Robinson 2016-08-02

Ada Lovelace (1815–1852) was the daughter of Lord Byron, a poet, and Anna Isabella Milbanke, a mathematician. Her parents separated when she was young, and her mother insisted on a logic-focused education, rejecting Byron’s “mad” love of poetry. But Ada remained fascinated with her father and considered mathematics “poetical science.” Via her friendship with inventor Charles Babbage, she became involved in “programming” his Analytical Engine, a precursor to the computer, thus becoming the world’s first computer programmer. This picture book biography of Ada Lovelace is a compelling portrait of a woman who saw the potential for numbers to make art.

**The Innovators** - Walter Isaacson 2014

"Following his blockbuster biography of Steve Jobs, *The Innovators* is Walter Isaacson's revealing story of the people who created the computer and the Internet. It is destined to be the standard history of the digital revolution and an indispensable guide to how innovation really happens. What were the talents that allowed certain inventors and entrepreneurs to turn their visionary ideas into disruptive realities? What led to their creative leaps? Why did some succeed and others fail? In his masterly saga, Isaacson begins with Ada Lovelace, Lord Byron's daughter, who pioneered computer programming in the 1840s. He explores the fascinating personalities that created our current digital revolution, such as Vannevar Bush, Alan Turing, John von Neumann, J.C.R. Licklider, Doug Engelbart, Robert Noyce, Bill Gates, Steve Wozniak, Steve Jobs, Tim Berners-Lee, and Larry Page. This is the story of how their minds worked and what made them so inventive. It's also a narrative of how their ability to collaborate and master the art of teamwork made them even more creative. For an era that seeks to foster innovation, creativity, and teamwork, *The Innovators* shows how they happen"--

*Exploring Nonfiction Literacies* - Vivian Yenika-Agbaw 2018-07-27

The book discusses how learners might be guided to interact with texts in

a creative but critically engaged and sustainable manner.

*Goth Girl and the Ghost of a Mouse* - Chris Riddell 2014-10-09

Chris Riddell's *Goth Girl and the Ghost of a Mouse* is the beautifully illustrated winner of the Costa Children's Book Award. Full of adventure and dark humour, it's perfect for all young Goths! Ada Goth is the only child of Lord Goth. The two live together in the enormous Ghastly-Gorm Hall. Lord Goth believes that children should be heard and not seen, so Ada has to wear large clumpy boots so that he can always hear her coming. This makes it hard for her to make friends and, if she's honest, she's rather lonely. Then one day William and Emily Cabbage come to stay at the house and, together with a ghostly mouse called Ishmael, the three children begin to unravel a dastardly plot that Maltravers, the mysterious indoor gamekeeper, is hatching. Ada and her friends must work together to foil Maltravers before it's too late! Continue this deliciously dark series with *Goth Girl and the Fete Worse Than Death* and *Goth Girl and the Wuthering Fright*.

*Ada Lovelace Cracks the Code* - Rebel Girls 2019-11-12

From the world of *Good Night Stories for Rebel Girls* comes a story based on the exciting real-life adventures of Ada Lovelace, one of the world’s first computer programmers. Growing up in nineteenth century London, England, Ada is curious about absolutely everything. She is obsessed with machines and with creatures that fly. She even designs her own flying laboratory! According to her mother, Ada is a bit too wild, so she encourages Ada to study math. At first Ada thinks: Bleh! Who can get excited about a subject without pictures? But she soon falls in love with it. One day she encounters a mysterious machine, and from that moment forward Ada imagines a future full of possibility—one that will eventually inspire the digital age nearly two hundred years later. *Ada Lovelace Cracks the Code* is the story of a pioneer in the computer sciences, and a testament to women’s invaluable contributions to STEM throughout history. This historical fiction chapter book also includes additional text on Ada Lovelace’s lasting legacy, as well as educational activities designed to teach simple coding and mathematical concepts. About the *Rebel Girls Chapter Book Series Meet extraordinary real-life heroines in the Good Night Stories for Rebel Girls chapter book series!* Introducing stories based on the lives and times of extraordinary women in global history, each stunningly designed chapter book features beautiful illustrations from a female artist as well as bonus activities in the backmatter to encourage kids to explore the various fields in which each of these women thrived. The perfect gift to inspire any young reader!

*The Japanese Devil Fish Girl and Other Unnatural Attractions* - Robert Rankin 2010-09-09

The pickled Martian's tentacles are fraying at the ends and Professor Coffin's Most Meritorious Unnatural Attraction (the remains of the original alien autopsy, performed by Sir Frederick Treves at the London Hospital) is no longer drawing the crowds. It's 1895; nearly a decade since Mars invaded Earth, chronicled by H.G. Wells in *THE WAR OF THE WORLDS*. Wrecked Martian spaceships, back-engineered by Charles Babbage and Nikola Tesla, have carried the Queen's Own Electric Fusiliers to the red planet, and Mars is now part of the ever-expanding British Empire. The less-than-scrupulous sideshow proprietor likes Off-worlders' cash, so he needs a sensational new attraction. Word has reached him of the Japanese Devil Fish Girl; nothing quite like her has ever existed before. But Professor Coffin's quest to possess the ultimate showman's exhibit is about to cause considerable friction amongst the folk of other planets. Sufficient, in fact, to spark off *Worlds War Two*.

*Marking the "Invisible"* - Andrea M. Hawkman 2020-04-01

Substantial research has been put forth calling for the field of social studies education to engage in work dealing with the influence of race and racism within education and society (Branch, 2003; Chandler, 2015; Chandler & Hawley, 2017; Husband, 2010; King & Chandler, 2016; Ladson-Billings, 2003; Ooka Pang, Rivera & Gillette, 1998). Previous contributions have examined the presence and influence of race/ism

within the field of social studies teaching and research (e.g. Chandler, 2015, Chandler & Hawley, 2017; Ladson-Billings, 2003; Woyshner & Bohan, 2012). In order to challenge the presence of racism within social studies, research must attend to the control that whiteness and white supremacy maintain within the field. This edited volume builds from these previous works to take on whiteness and white supremacy directly in social studies education. In *Marking the "Invisible"*, editors assemble original contributions from scholars working to expose whiteness and disrupt white supremacy in the field of social studies education. We argue for an articulation of whiteness within the field of social studies education in pursuit of directly challenging its influences on teaching, learning, and research. Across 27 chapters, authors call out the strategies deployed by white supremacy and acknowledge the depths by which it is used to control, manipulate, confine, and define identities, communities, citizenships, and historical narratives. This edited volume promotes the reshaping of social studies education to: support the histories, experiences, and lives of Students and Teachers of Color, challenge settler colonialism and color-evasiveness, develop racial literacy, and promote justice-oriented teaching and learning. Praise for *Marking the "Invisible"* "As the theorization of race and racism continues to gain traction in social studies education, this volume offers a much-needed foundational grounding for the field. From the foreword to the epilogue, *Marking the "Invisible"* foregrounds conversations of whiteness in notions of supremacy, dominance, and rage. The chapters offer an opportunity for social studies educators to position critical theories of race such as critical race theory, intersectionality, and settler colonialism at the forefront of critical examinations of whiteness. Any social studies educator - researcher concerned with the theorization or teaching of race should engage with this text in their work." Christopher L. Busey, University of Florida

*Ada's Ideas* - Fiona Robinson 2016

Ada Lovelace (1815-1852) was the daughter of Lord Byron, a poet, and Anna Isabella Milbanke, a mathematician. Her parents separated when she was young, and her mother insisted on a logic-focused education, rejecting Byron's "mad" love of poetry. But Ada remained fascinated with her father and considered mathematics "poetical science." Via her friendship with inventor Charles Babbage, she became involved in "programming" his Analytical Engine, a precursor to the computer, thus becoming the world's first computer programmer. This picture book biography of Ada Lovelace is a compelling portrait of a woman who saw the potential for numbers to make art.

*Nothing Stopped Sophie* - Cheryl Bardoe 2018-06-12

The true story of eighteenth-century mathematician Sophie Germain, who solved the unsolvable to achieve her dream. When her parents took away her candles to keep their young daughter from studying math...nothing stopped Sophie. When a professor discovered that the homework sent to him under a male pen name came from a woman...nothing stopped Sophie. And when she tackled a math problem that male scholars said would be impossible to solve...still, nothing stopped Sophie. For six years Sophie Germain used her love of math and her undeniable determination to test equations that would predict patterns of vibrations. She eventually became the first woman to win a grand prize from France's prestigious Academy of Sciences for her formula, which laid the groundwork for much of modern architecture (and can be seen in the book's illustrations). Award-winning author Cheryl Bardoe's inspiring and poetic text is brought to life by acclaimed artist Barbara McClintock's intricate pen-and-ink, watercolor, and collage illustrations in this true story about a woman who let nothing stop her.

**A New Kind of Science** - Stephen Wolfram 2018-11-30

NOW IN PAPERBACK "Starting from a collection of simple computer experiments" illustrated in the book by striking computer graphics "Stephen Wolfram shows how their unexpected results force a whole new way of looking at the operation of our universe."

*Ada Lovelace* - Inspired Inner Genius 2020-12-31

**The Difference Engine** - William Gibson 2014-05-14

The computer age has arrived a century ahead of time with Charles Babbage's perfection of his Analytical Engine. The Industrial Revolution, supercharged by the development of steam-driven cybernetic Engines, is in full and drastic swing. Great Britain, with her calculating-cannons, steam dreamnoughts, machine-guns and information technology, prepares to better the world's lot . . .

*Ada Lovelace* - Anna Doherty 2022-06-09

An inspiring, empowering, fantastically feminist and totally true story, perfect for fans of Little People, Big Dreams and Goodnight Stories for

Rebel Girls! Meet the remarkable Ada Lovelace: rebellious rule-breaker and maths whizz-kid. Growing up in the shadow of her eccentric superstar father, the poet Lord Byron, and under the eye of her strict mother, Ada spends her time inventing and designing flying machines and studying her favourite subject - maths. In Ada's time, girls aren't encouraged to pursue maths, physics or engineering as they're considered not clever enough but Ada doesn't let this stop her. Once she grows up, Ada meets the famous inventor and engineer Charles Babbage, who introduces her to a truly extraordinary machine ... one that will test Ada's powers of logic and imagination, and establish her as the world's very first computer programmer! This is the absolutely astonishing, fantastically feminist and, best of all, totally true story of one amazingly determined young lady!

*Ada's Legacy* - Robin Hammerman 2015-10-01

*Ada's Legacy* illustrates the depth and diversity of writers, thinkers, and makers who have been inspired by Ada Lovelace, the English mathematician and writer. The volume, which commemorates the bicentennial of Ada's birth in December 1815, celebrates Lovelace's many achievements as well as the impact of her life and work, which reverberated widely since the late nineteenth century. In the 21st century we have seen a resurgence in Lovelace scholarship, thanks to the growth of interdisciplinary thinking and the expanding influence of women in science, technology, engineering and mathematics. *Ada's Legacy* is a unique contribution to this scholarship, thanks to its combination of papers on Ada's collaboration with Charles Babbage, Ada's position in the Victorian and Steampunk literary genres, Ada's representation in and inspiration of contemporary art and comics, and Ada's continued relevance in discussions around gender and technology in the digital age. With the 200th anniversary of Ada Lovelace's birth on December 10, 2015, we believe that the timing is perfect to publish this collection of papers. Because of its broad focus on subjects that reach far beyond the life and work of Ada herself, *Ada's Legacy* will appeal to readers who are curious about Ada's enduring importance in computing and the wider world.

**Iggy Peck, Architect** - Andrea Beaty 2016-02-01

A hilarious, irreverent book about doing your own thing Meet Iggy Peck—creative, independent, and not afraid to express himself! In the spirit of David Shannon's *No, David* and Rosemary Wells's *Noisy Nora*, Iggy Peck will delight readers looking for irreverent, inspired fun. Iggy has one passion: building. His parents are proud of his fabulous creations, though they're sometimes surprised by his materials—who could forget the tower he built of dirty diapers? When his second-grade teacher declares her dislike of architecture, Iggy faces a challenge. He loves building too much to give it up! With Andrea Beaty's irresistible rhyming text and David Roberts's puckish illustrations, this book will charm creative kids everywhere, and amuse their sometimes bewildered parents. Also from the powerhouse author-illustrator team of Iggy Peck, *Architect*, is *Rosie Revere, Engineer*, a charming, witty picture book about believing in yourself and pursuing your passion. *Ada Twist, Scientist*, the companion picture book featuring the next kid from Iggy Peck's class, is available in September 2016.

**Idea Makers** - Stephen Wolfram 2016

This book of thoroughly engaging essays from one of today's most prodigious innovators provides a uniquely personal perspective on the lives and achievements of a selection of intriguing figures from the history of science and technology. Weaving together his immersive interest in people and history with insights gathered from his own experiences, Stephen Wolfram gives an ennobling look at some of the individuals whose ideas and creations have helped shape our world today. Contents includes biographical sketches of: Richard Feynman Kurt Godel Alan Turing John von Neumann George Boole Ada Lovelace Gottfried Leibniz Benoit Mandelbrot Steve Jobs Marvin Minsky Russell Towle Bertrand Russell Alfred Whitehead Richard Crandall Srinivasa Ramanujan Solomon Golomb

*Ada Lovelace, Poet of Science* - Diane Stanley 2016-10-04

"A fascinating look at Ada Lovelace, the pioneering computer programmer and the daughter of the poet Lord Byron." --

*Integrating Literature in the Disciplines* - Sharon Kane 2020-04-22

The Second Edition of this practical and comprehensive resource offers a multitude of ways to incorporate literature into teaching and learning across a range of disciplines. Future and practicing teachers, librarians, instructional coaches, and school leaders can implement the ideas within this text to improve the literacy skills and knowledge of students, while also addressing standards and curricular goals of various content areas. The new edition recognizes a paradigm shift from content areas to disciplines, reflecting the specific ways reading and writing are used in

different fields of study. Updated with current research and practices, the volume recommends and evaluates books in different genres and categories, with chapters on informational books; fiction; biography and memoir; poetry; and hands-on and how-to books. For every category, Kane provides a rationale, instructional strategies, and author studies, as well as lists and descriptions of books related to curricular areas. With a wealth of activities and new BookTalks, this Second Edition is greatly revised and features expanded attention to technology, digital learning, diversity, and culture. Using this text will create opportunities for deep discussions and will stimulate students' interest and motivation to read and learn. Integrating Literature in the Disciplines helps educators identify books that fit with any subject to enhance the creative and affective dimensions of school life; encourages interdisciplinary connections; and increases the depth and relevance of lessons. It is ideal for professional development and serves as a tool for Readers' Advisory to match books with readers throughout the school day and beyond.

**Ada, the Enchantress of Numbers** - Betty Alexandra Toole 2010-10-14

Ada Byron, Lady Lovelace, was one of the first to write programs for, and predict the impact of, Charles Babbage's Analytical Engine in 1843. Beautiful and charming, she was often characterized as "mad and bad" as was her illustrious father. This e-book edition, *Ada, the Enchantress of Numbers: Poetical Science*, emphasizes Ada's unique talent of integrating imagination, poetry and science. This edition includes all of Ada's fascinating letters to Charles Babbage, 55 pictures, and sidebars that encourages the reader to follow Ada's pathway to the 21st century.

**Ada Lovelace** - Christopher Hollings 2018

"Ada, Countess of Lovelace and daughter of Romantic poet Lord Byron, is sometimes referred to as the world's first computer programmer. But how did a young woman in the nineteenth century without a formal education become a pioneer of computer science? Drawing on previously unpublished archival material, including a remarkable correspondence course with eminent mathematician Augustus De Morgan, this book explores Ada Lovelace's development from her precocious childhood into a gifted, perceptive and knowledgeable mathematician who, alongside Mary Somerville, Michael Faraday and Charles Dickens, became part of Victorian London's social and scientific elite. Featuring images of the 'first programme' together with mathematical models and contemporary illustrations, the authors show how, despite her relatively short life and with astonishing prescience, Ada Lovelace explored key mathematical questions to understand the principles behind modern computing."--Page 4 de la couverture.

**DK Life Stories Ada Lovelace** - Nancy Castaldo 2019-10-03

Discover the inspiring story of Ada Lovelace, one of the first computer scientists, who predicted how computers could change our lives in this fascinating kids' biography. In 1833, Ada Lovelace met mathematician Charles Babbage, inventor of calculating machines. She went on to devise a way of inputting data into Babbage's Analytical Machine, and in doing so became the first ever computer programmer. In this biography book for 8-11 year olds, learn all about Ada Lovelace's intriguing life, including her talent for languages and mathematics, and her fascination with science. This new kids' biography series from DK goes beyond the basic facts to tell the true life stories of history's most interesting and inspiring people. Full-colour photographs and hand-drawn illustrations complement age-appropriate narrative text to create an engaging book children will enjoy reading. Definition boxes, information sidebars, inspiring quotes, and other nonfiction text features add depth, and a handy reference section at the back makes DK Life Stories the one biography series everyone will want to collect.

**Ada Lovelace** - Maria Isabel Sanchez Vegara 2018-03-01

Meet Ada Lovelace, the British mathematician and daughter of poet Lord Byron. Part of the beloved Little People, BIG DREAMS series, this inspiring and informative little biography follows the colorful life of Lord Byron's daughter, from her early love of logic, to her plans for the world's first computer program. As a child, Ada had a big imagination and a talent for mathematics. She grew up in a noble household in England, where she dedicated herself to studying. Her work with the famous inventor, Charles Babbage, on a very early kind of computer made her the world's first computer programmer. This moving book features stylish and quirky illustrations and extra facts at the back, including a biographical timeline with historical images and a detailed profile of the mathematician's life. Little People, BIG DREAMS is a best-selling series of books and educational games that explore the lives of outstanding people, from designers and artists to scientists and activists. All of them achieved incredible things, yet each began life as a child with a dream. This empowering series offers inspiring messages to children of all ages, in a range of formats. The

board books are told in simple sentences, perfect for reading aloud to babies and toddlers. The hardcover versions present expanded stories for beginning readers. Boxed gift sets allow you to collect a selection of the books by theme. Paper dolls, learning cards, matching games, and other fun learning tools provide even more ways to make the lives of these role models accessible to children. Inspire the next generation of outstanding people who will change the world with Little People, BIG DREAMS!

**Lady Byron and Her Daughters** - Julia Markus 2015-10-13

A startling reevaluation of Lady Byron's marriage and the untold story of her complex life as single mother and progressive force. The center of public attention after her tumultuous marriage to Lord Byron, Annabella Milbanke transformed herself from a neglected wife into a figure of incredible resilience and social vision. After she and her infant child were cast out of their home, she was left to navigate the stifling and unsupportive social environment of Regency England. Far from a victim or an obstacle to Byron's work, however, Lady Byron was a rebel against the fashionable snobbery of her class, founding the first Infants School and Co-Operative School in England. A poet and talented mathematician, Lady Byron supported the education of her precocious daughter, Ada Lovelace, now recognized and lauded as a pioneer of computer science, and saved from death her "adoptive daughter" Medora Leigh, the child of Lord Byron's incest with his sister. Lady Byron was adored by the younger abolitionist Harriet Beecher Stowe and by many notable friends. Yet her complex relationships with her family, including the sister Byron loved, runs like a live wire through this skillfully told and groundbreaking biography of a remarkable woman who made a life for herself and became a leading light in her century.

**The Case of the Missing Moonstone** - Jordan Stratford 2015-01-29

When Mary Godwin and Lady Ada Byron first meet, they don't exactly hit it off. But with crime on the rise, the unlikely pair form a detective agency to hunt down clever criminals on the streets of London. Their first case involves a stolen necklace, a false confession, and lots of suspicious suspects - but these are no match for Ada and Mary. Filled with daring balloon chases, vile villains and two unforgettable heroines, *The Case of the Missing Moonstone* is the first in a thrilling new series; perfect for all aspiring sleuths.

**A Female Genius** - James Essinger 2014

Ada Lovelace was the only legitimate child of Lord Byron, the dangerous romantic poet whose name became a byword for scandal. Over the past decades, she herself has become a surprising underground star for digital pioneers all over the world, starting with Alan Turing. Embraced by programmers and women in technology, Ada even has her own day that is commemorated every year on Google's search engine.

**Dreaming in Code: Ada Byron Lovelace, Computer Pioneer** - Emily Arnold McCully 2019-03-12

This illuminating biography reveals how the daughter of Lord Byron, Britain's most infamous Romantic poet, became the world's first computer programmer. Even by 1800s standards, Ada Byron Lovelace had an unusual upbringing. Her strict mother worked hard at cultivating her own role as the long-suffering ex-wife of bad-boy poet Lord Byron while raising Ada in isolation. Tutored by the brightest minds, Ada developed a hunger for mental puzzles, mathematical conundrums, and scientific discovery that kept pace with the breathtaking advances of the industrial and social revolutions taking place in Europe. At seventeen, Ada met eccentric inventor Charles Babbage, a kindred spirit. Their ensuing collaborations resulted in ideas and concepts that presaged computer programming by almost two hundred years, and Ada Lovelace is now recognized as a pioneer and prophet of the information age. Award-winning author Emily Arnold McCully opens the window on a peculiar and singular intellect, shaped — and hampered — by history, social norms, and family dysfunction. The result is a portrait that is at once remarkable and fascinating, tragic and triumphant.

**The Creativity Code** - Marcus Du Sautoy 2020-03-03

"A brilliant travel guide to the coming world of AI." —Jeanette Winterson  
What does it mean to be creative? Can creativity be trained? Is it uniquely human, or could AI be considered creative? Mathematical genius and exuberant polymath Marcus du Sautoy plunges us into the world of artificial intelligence and algorithmic learning in this essential guide to the future of creativity. He considers the role of pattern and imitation in the creative process and sets out to investigate the programs and programmers—from Deep Mind and the Flow Machine to Botnik and WHIM—who are seeking to rival or surpass human innovation in gaming, music, art, and language. A thrilling tour of the landscape of invention, *The Creativity Code* explores the new face of creativity and the mysteries of the human code. "As machines outsmart us in ever more domains, we

can at least comfort ourselves that one area will remain sacrosanct and uncomputable: human creativity. Or can we?...In his fascinating exploration of the nature of creativity, Marcus du Sautoy questions many of those assumptions." —Financial Times "Fascinating...If all the experiences, hopes, dreams, visions, lusts, loves, and hatreds that shape the human imagination amount to nothing more than a 'code,' then sooner or later a machine will crack it. Indeed, du Sautoy assembles an eclectic array of evidence to show how that's happening even now." —The Times

*Whale Shines* - Fiona Robinson 2013-11-05

À All day, Whale swims through the ocean, wearing a poster advertising the big upcoming art exhibition. He visits the eel who wriggles abstract patterns in the sand, the squid who paints with ink, and the hammerhead shark who builds sculptures from salvage. Whale sees his friends' confidence and creativity and wishes he could be an artist too, but he doesn't know what to make and insists he's too ungainly to create art. Then one day, with the unexpected help of some bioluminescent plankton, he discovers his own distinct point of view and talent. From the award-winning author-illustrator of *What Animals Really Like*, hailed by *School Library Journal* as "sublime silliness,†? comes another inspiring tale about defying expectation and finding the artist within. Praise for *Whale Shines* STARRED REVIEW "At its core, Robinson's (*What Animals Really Like*) story is a tried and true tale of a wallflower realizing his potential. But her understated, offbeat voice and visuals—a mashup of classicism and graphic novel sensibilities—makes this a standout: up-to-the-minute modern in its irreverence and offhandedness, yet timeless in its understanding of a character's yearning." —Publishers Weekly, starred review "Sharp contrasts between light and dark are beautiful." —Kirkus Reviews "Children will embrace and understand the sincere, undervalued message of art as substantive and a way to "share one's world.†? This inspiring tale of artistic collaboration between the whale and bioluminescent plankton will be shared again and again." —*School Library Journal* "The watercolor and pencil art makes excellent use of the spreads' wide horizontality; while the art projects and, indeed, the underwater world are on the literal side for such an artistic-themed story, there's a murky charm to life in the briny deep... What's particularly appealing here is the casual inclusion of a wide variety of approaches to art, making this an entertaining lead-in to art projects, especially those involving the natural world." —Bulletin of The Center for Children's Books

**When Einstein Walked with Gödel** - Jim Holt 2018-05-15

From Jim Holt, the New York Times bestselling author of *Why Does the World Exist?*, comes an entertaining and accessible guide to the most profound scientific and mathematical ideas of recent centuries in *When Einstein Walked with Gödel: Excursions to the Edge of Thought*. Does time exist? What is infinity? Why do mirrors reverse left and right but not up and down? In this scintillating collection, Holt explores the human mind, the cosmos, and the thinkers who've tried to encompass the latter with the former. With his trademark clarity and humor, Holt probes the mysteries of quantum mechanics, the quest for the foundations of mathematics, and the nature of logic and truth. Along the way, he offers intimate biographical sketches of celebrated and neglected thinkers, from the physicist Emmy Noether to the computing pioneer Alan Turing and the discoverer of fractals, Benoit Mandelbrot. Holt offers a painless and playful introduction to many of our most beautiful but least understood ideas, from Einsteinian relativity to string theory, and also invites us to consider why the greatest logician of the twentieth century believed the U.S. Constitution contained a terrible contradiction—and whether the universe truly has a future.

**In Byron's Wake** - Miranda Seymour 2018-03-22

A Sunday Times Book of the Year Shortlisted for The Pol Roger Duff Cooper Prize 'This magnificent, highly readable double biography...brings these two driven, complicated women vividly to life' The Financial Times 'A gripping saga of a double-biography' Daily Mail 'A masterful portrait' The Times 'Vastly enjoyable' Literary Review 'Deeply absorbing and meticulously researched' The Oldie In 1815, the clever, courted and cherished Annabella Milbanke married the notorious and brilliant Lord Byron. Just one year later, she fled, taking with her their baby daughter, the future Ada Lovelace. Byron himself escaped into exile and died as a revolutionary hero in 1824, aged 36. The one thing he had asked his wife to do was to make sure that their daughter never became a poet. Ada didn't. Brought up by a mother who became one of the most progressive reformers of Victorian England, Byron's little girl was introduced to mathematics as a means of calming her wild spirits. Educated by some of the most learned minds in England, she combined that scholarly discipline with a rebellious heart and a visionary imagination. As a child invalid, Ada

dreamed of building a steam-driven flying horse. As an exuberant and boldly unconventional young woman, she amplified her explanations of Charles Babbage's unbuilt calculating engine to predict, as nobody would do for another century, the dawn today of our modern computer age. When Ada died - like her father, she was only 36 - great things seemed still to lie ahead for her as a passionate astronomer. Even while mired in debt from gambling and crippled by cancer, she was frenetically employing Faraday's experiments with light refraction to explore the analysis of distant stars. Drawing on fascinating new material, Seymour reveals the ways in which Byron, long after his death, continued to shape the lives and reputations both of his wife and his daughter. During her life, Lady Byron was praised as a paragon of virtue; within ten years of her death, she was vilified as a disgrace to her sex. Well over a hundred years later, Annabella Milbanke is still perceived as a prudish wife and cruelly controlling mother. But her hidden devotion to Byron and her tender ambitions for his mercurial, brilliant daughter reveal a deeply complex but unsuspectedly sympathetic personality. Miranda Seymour has written a masterful portrait of two remarkable women, revealing how two turbulent lives were often governed and always haunted by the dangerously enchanting, quicksilver spirit of that extraordinary father whom Ada never knew.

**Ada, the Enchantress of Numbers** - Ada King Countess of Lovelace 1992

Toole did research for more than eight years, burying herself in British archives and libraries to narrate and edit this extraordinary collection of letters written by Ada Lovelace. Not only do they outline Ada's ingenuity for the sciences, but they also enlighten us on all aspects of Lady Lovelace's multidimensional life: her passionate desire to flourish in a "man's world," her battle with drug addiction and chronic sickness, and her efforts as a mother and wife. Lovelace also had a reputation as a wild gambler and a lover. Ada was one of the first to write programs of instructions for Babbage's Analytical Engines, the famous precursors to the modern digital computer. Ada's letters are some of the classic founding documents of cybernetics and computer science, written nearly a century before ENIAC.

**Ara the Star Engineer** - Komal Singh 2018-10-16

This is a STEM book and more! An inspiring, inclusive, whimsical way to learn about computers and technology from real-life trailblazers. Ara is a young girl who loves BIG numbers. She wants to count all the stars in the sky... but how? This is an upbeat adventure of Ara and her sidekick droid, DeeDee ("Beep!"). They use smarts and grit to solve a BIG problem and discover an amazing algorithm! A quest that takes them through a whirlwind of intriguing locations at Innovation Plex -- Data Centre, Ideas Lab, Coding Pods, and X-Space. Along the way, they encounter real-life women tech trailblazers of diverse backgrounds, including a Tenacious Troubleshooter, an Intrepid Innovator, a Code Commander, and a Prolific Problem Solver. They tinker-and-tailor, build-and-fail, launch-and-iterate, and in the end discover an amazing algorithm of success -- coding, courage, creativity, and collaboration ("Beeeeeep!"). Read the book, download hands-on activities, follow further learning resources.

Experience the story in immersive ways never done before... coming soon! Ara is making a splash with industry CEOs and best-selling kids authors. "If she can see it, she can be it.' With this story, girls can see leaders and be inspired to become one. A book for all ages and genders!" - Geena Davis, Founder and Chair, Geena Davis Institute on Gender in Media

**Ada Lovelace Timeline** - Hourly History

This is a short timeline of Ada Lovelace.

**Ada and the Number-Crunching Machine** - Zoë Tucker 2019-09-03

This is Ada. Although she might look like an ordinary little girl, she's about to change the world. Augusta Ada Byron, better known as Ada Lovelace, is an inquisitive child. Like her clever mother, she loves solving problems—big problems, little problems, and tricky, complicated problems. Ada invents crazy contraptions and reads all the books in the library of her father, the poet Lord Byron; but most of all she loves to solve mathematical problems. Together with her teacher, the mathematician Charles Babbage, Ada invents the world's first computer program. Her achievements made her a pioneer for women in the sciences. Zoë Tucker's words capture the adventurous life of Ada succinctly, and debut picture book illustrator Rachel Katstaller's art infuses Victorian London with humor.

**I, ADA** - Julia GRAY 2020

The early life of Ada Lovelace, the 19th-century mathematician who is considered by many to be the world's first computer programmer. Ada Byron is rich and clever, but she longs to be free. Free to explore all the amazing ideas that come to her imagination, like flying mechanical horses

and stories inspired by her travels. Free to find love and passion beyond the watchful gaze of her mother and governesses. And free to learn the full truth about her father, the notorious Lord Byron. Then Ada meets a man whose invention might just change the world - and he needs her visionary brilliance to bring it to life . . . A wonderfully witty and poignant portrayal of the young life of Ada Lovelace, the 19th-century mathematician who is hailed as the world's first computer programmer. *An Elementary Treatise on Arithmetic* - Silvestre François Lacroix 1825

**Ada's Algorithm** - James Essinger 2014-10-14

"[Ada Lovelace], like Steve Jobs, stands at the intersection of arts and technology."—Walter Isaacson, author of *The Innovators* Over 150 years after her death, a widely-used scientific computer program was named "Ada," after Ada Lovelace, the only legitimate daughter of the eighteenth century's version of a rock star, Lord Byron. Why? Because, after computer pioneers such as Alan Turing began to rediscover her, it slowly

became apparent that she had been a key but overlooked figure in the invention of the computer. In *Ada Lovelace*, James Essinger makes the case that the computer age could have started two centuries ago if Lovelace's contemporaries had recognized her research and fully grasped its implications. It's a remarkable tale, starting with the outrageous behavior of her father, which made Ada instantly famous upon birth. Ada would go on to overcome numerous obstacles to obtain a level of education typically forbidden to women of her day. She would eventually join forces with Charles Babbage, generally credited with inventing the computer, although as Essinger makes clear, Babbage couldn't have done it without Lovelace. Indeed, Lovelace wrote what is today considered the world's first computer program—despite opposition that the principles of science were "beyond the strength of a woman's physical power of application." Based on ten years of research and filled with fascinating characters and observations of the period, not to mention numerous illustrations, Essinger tells Ada's fascinating story in unprecedented detail to absorbing and inspiring effect.