



Invention and the Creative Process

Resource List for Grades 9 through 12

The Resources in this document can be used with the Invention and Creative Process Curriculum Packet for grades 9 through 12.

Books

Non-fiction and Biography

- Black Stars: African American Women Scientists and Inventors, 2012 by Otha Richard Sullivan (Author).
Meet African American women of science and invention from the early years to modern times.
- Creative Like da Vinci: Practical Everyday Creativity for Idea Generation, New Perspectives, and Innovative Thinking, 2018 by Peter Hollins (Author).
How to systematically engineer creativity from nothing and unleash your inner ingenuity. Creative thinking is surrounded by so much mystique and myth. It's time to cut through the static and learn how to become an idea-generating machine. Spark your imagination, improve your thinking, and solve problems
- The Creative Habit: Learn It and Use It for Life, 2006 by Twyla Tharp (Author), Mark Reiter (Contributor).
All it takes to make creativity a part of your life is the willingness to make it a habit. It is the product of preparation and effort, and is within reach of everyone. Whether you are a painter, musician, businessperson, or simply an individual yearning to put your creativity to use, this book provides you with thirty-two practical exercises based on the lessons Twyla Tharp has learned in her remarkable thirty-five-year career.
- Elon Musk and the Quest for a Fantastic Future Young Readers' Edition, 2017 by Ashlee Vance (Author).
There are few people in history that could match Elon Musk's relentless drive and vision. A modern combination of famous inventors and industrialists like Thomas Edison, Henry Ford, and Steve Jobs, Elon is the man behind companies such as SpaceX, Tesla Motors, SolarCity, and PayPal that are transforming the way we live.
- I.M. Pei: Architect of Time, Place and Purpose, 2011 by Jill Rubalcaba (Author).
This handsome volume, extensively illustrated with clear photographs and some architectural drawings, gives a personalized account of the career of the Chinese-born superstar architect.
- Rhett & Link's Book of Mythicality: A Field Guide to Curiosity, Creativity, and Tomfoolery, 2018 by Rhett McLaughlin (Author).
From the YouTube superstars and creators of Good Mythical Morning comes the ultimate guide to living a "Mythical" life, featuring stories and photos from their lifelong friendship, as well as awesomely illustrated guides, charts, and activities aimed at laughing more, learning more, and never taking yourself too seriously.
- Steal Like an Artist: 10 Things Nobody Told You About Being Creative, 2012 by Austin Kleon (Author).

Nothing is original, so embrace influence, collect ideas, and remix and re-imagine to discover your own path. Follow your interests wherever they take you. Stay smart, stay out of debt, and risk being boring—the creative you will need to make room to be wild and daring in your imagination.

- Think Like Sherlock: Creatively Solve Problems, Think with Clarity, Make Insightful Observations & Deductions, and Develop Quick & Accurate Instincts, 2018 by Peter Hollins (Author).

Sherlock Holmes, famous detective of 221 Baker Street, is one of literature's most beloved figures. Why? Because he is able to unravel a complex story from simple observation, perception, creative thinking, and problem-solving. No book can make you Sherlock. But this book can teach you his most practical tactics and introduce you to the building blocks of what it takes to be a famous detective. Sharpen your judgment and instincts for better decisions.

- A Whole New Mind: Why Right-Brainers Will Rule the Future, 2006 by Daniel H. Pink (Author).

The future belongs to a different kind of person with a different kind of mind: artists, inventors, storytellers—creative and holistic "right-brain" thinkers whose abilities mark the fault line between who gets ahead and who doesn't.

- Wild Ideas: Creativity from the Inside Out, 2016 by Cathy Wild (Author).

This book is about tackling anything in life with confidence: an art project, a business, relationship or lifestyle. It's about living more authentically and not fighting the sacrifices required to do so.

Fiction

- Adventurers Wanted, Book One: Slathbog's Gold, 2011 by M. L. Forman (Author).
The sign is small, tucked into the corner of Mr. Clutter's bookshop window: Adventurers Wanted. Apply Within. No one but fifteen-year-old Alex Taylor even seems to notice it is there. And for Alex, who has wished for a change in his life, it is an irresistible invitation.
- Between Shades of Gray, 2012 by Ruta Sepetys (Author).
Fifteen-year-old Lina is a Lithuanian girl living an ordinary life, until Soviet officers invade her home and tear her family apart. Separated from her father and forced onto a crowded train, Lina, her mother, and her young brother make their way to a Siberian work camp, where they are forced to fight for their lives. Lina finds solace in her art, documenting these events by drawing.
- Graffiti Moon, 2012 by Cath Crowley (Author).
Senior year is over, and Lucy has the perfect way to celebrate: tonight, she's going to find Shadow, the mysterious graffiti artist whose work appears all over the city. He's out there somewhere spraying color, spraying birds and blue sky on the night, and Lucy knows a guy who paints like Shadow is someone she could fall for.
- Happyface, 2011 by Stephen Emond (Author).
This unique combination of text and fully integrated art follows the journey of a dorky, quiet, artsy kid as he reinvents himself after moving to a new town, where he's nicknamed Happyface. Peek in his journal and see the world through his hilariously self-deprecating eyes as he learns to shed his comic-book-loving, computer-game playing ways.
- The Sky Is Everywhere, 2011 by Jandy Nelson (Author).
Adrift after her sister Bailey's sudden death, Lennie finds herself torn between quiet, seductive Toby, Bailey's boyfriend who shares her grief, and Joe, the new boy in town who bursts with life

and musical genius. Each offers Lennie something she desperately needs... though she knows if the two of them collide her whole world will explode.

- Speak, 2011 by Laurie Halse Anderson (Author).
As time passes, Melinda becomes increasingly isolated and practically stops talking altogether. Only her art class offers any solace, and it is through her work on an art project that she is finally able to face what really happened at that terrible party: she was raped by an upperclassman, a guy who still attends Merryweather and is still a threat to her. Her healing process has just begun when she has another violent encounter with him. But this time Melinda fights back, refuses to be silent, and thereby achieves a measure of vindication.

Magazines, Journals, Miscellaneous

- Adobe Capture CC: Magical design tool extracts colors, patterns, and more from images. Download from your app store.
- Artsonia Kids Online Art Museum: Empowers students to display, and explain, their own creations. (Download from your app store)
- Make: Fuel creative makers with project ideas, reviews, and community.
<https://makezine.com/>
- Pixlr - Photo Collages, Effects: Easy photo-editing tool sparks creativity, teaches basic art techniques. Download from your app store.

Online Links

- Adobe Spark: This free, one-stop shop for creating sleek graphics, web stories, and animated videos is incredibly easy to use and challenges students to think critically about visual presentation. Available at <https://spark.adobe.com/edu/>
- Exploritorium: Activities from the San Francisco Museum
<https://www.exploritorium.edu/explore/activitiesd>
- The Metropolitan Museum of Art, #metkids: Made for, with, and by kids, this site offers exploration and artistic fun.
<https://www.metmuseum.org/art/online-features/metkids/>

Background information for the Educator

- Creative Educator: Integrate Technology into the Curriculum
<https://creativeeducator.tech4learning.com/lessons/>
- Teaching Creative Thinking: Developing Learners Who Generate Ideas And Can Think Critically (Pedagogy for a Changing World), 2017 by Bill Lucas (Author), Ellen Spencer (Author).

Successful students value knowledge and skills at the same time as understanding the importance of developing their capabilities as learners in every lesson they experience. Teaching Creative Thinking is action-oriented and research-led and is packed with examples and case studies of successful practice, and pitfalls to avoid.