

Zoobots Wild Robots Inspired By Real Animals

AS RECOGNIZED, ADVENTURE AS CAPABLY AS EXPERIENCE JUST ABOUT LESSON, AMUSEMENT, AS CAPABLY AS CONCURRENCE CAN BE GOTTEN BY JUST CHECKING OUT A BOOKS **ZOOBOTS WILD ROBOTS INSPIRED BY REAL ANIMALS** PLUS IT IS NOT DIRECTLY DONE, YOU COULD TAKE EVEN MORE SOMETHING LIKE THIS LIFE, NEARLY THE WORLD.

WE GIVE YOU THIS PROPER AS WELL AS EASY PRETENSION TO GET THOSE ALL. WE PRESENT ZOOBOTS WILD ROBOTS INSPIRED BY REAL ANIMALS AND NUMEROUS BOOK COLLECTIONS FROM FICTIONS TO SCIENTIFIC RESEARCH IN ANY WAY. ALONG WITH THEM IS THIS ZOOBOTS WILD ROBOTS INSPIRED BY REAL ANIMALS THAT CAN BE YOUR PARTNER.

AWESOME INNOVATIONS INSPIRED BY SPIDERS JIM CORRIGAN 2020-09-21 SPIDERS MAY BE CREEPY, BUT THEY KNOW AMAZING TRICKS. SOME SPECIES HAVE LEARNED TO FLY. OTHERS LIKE TO HANGOUT UNDERWATER. SPIDER SILK IS STRONG AND FLEXIBLE. SPIDERS USE IT FOR MORE THAN JUST WEBS. SCIENTISTS KEEP TRYING TO MIMIC SPIDER SILK. ONCE THEY SUCCEED, PEOPLE WILL FIND MANY AWESOME USES.

THE BRANCH MIREILLE MESSIER 2016-09-06 WHEN AN ICE STORM SNAPS A SMALL GIRL'S FAVORITE BRANCH FROM THE TREE IN HER YARD, SHE WON'T LET IT BE HAULED AWAY. TO HER, IT WASN'T JUST ANY BRANCH, "IT WAS MY CASTLE, MY SPY BASE, MY SHIP ..." HER NEIGHBOR MR. FRANK AGREES. HE SAYS THE BRANCH HAS "POTENTIAL," AND THE TWO GET TO WORK TRANSFORMING WHAT WAS BROKEN INTO SOMETHING WHOLE AND NEW, TO BE ENJOYED AGAIN AND AGAIN.

MEDICAL TECHNOLOGY INSPIRED BY NATURE VENESSA BELLIDO SCHWARZ 2018-08-01 IDENTIFIES AND EXPLORES INNOVATIVE TECHNOLOGY IN THE MEDICAL INDUSTRY THAT WAS INSPIRED BY NATURE. ACCESSIBLE TEXT, SUPPLEMENTARY SIDEBARS, AND AN INTERESTING INFOGRAPHIC REVEAL FOR READERS THE SCIENCE BEHIND THESE TECHNOLOGIES AND THE ANIMALS AND PLANTS THAT INSPIRED THEM.

HOW TO BE A WEREWOLF SERENA VALENTINO 2011 LEARN ABOUT WEREWOLVES, THE DIFFERENT KINDS THERE ARE, WHAT WEREWOLVES LIKE TO DO, AND HOW TO LIVE SUCCESSFULLY AS ONE.

CLINK KELLY DiPUCCHIO 2011-11-15 CLINK WAS A STATE-OF-THE-ART ROBOT WITH THE DAZZLING ABILITY TO MAKE TOAST AND PLAY MUSIC AT THE SAME TIME. BUT THAT WAS MANY YEARS AGO. NOW KIDS WANT SNAZZIER ROBOTS WHO DO THINGS LIKE PLAY BASEBALL AND BAKE COOKIES. SO DAY AFTER DAY, CLINK SITS ON A SHELF AND SADLY WATCHES AS HIS FRIENDS LEAVE WITH THEIR NEW OWNERS. HE ALMOST GIVES UP ON EVER FINDING A HOME—UNTIL THE DAY CLINK SPIES A BOY WHO JUST MIGHT BE ABLE TO BE THE RIGHT ONE FOR HIM. . . . FROM #1 NEW YORK TIMES BESTSELLING AUTHOR KELLY DiPUCCHIO AND NEW TALENT MATTHEW MYERS COMES A FUNNY AND HEARTWARMING STORY THAT LOVERS OF CORDUROY WILL ADORE.

CREEPY & CRAWLY: TECHNOLOGY INSPIRED BY ANIMALS TESSA MILLER 2020-12-23 FLOATING THROUGH SPACE, A ROBOT CRAWLS ALONG A SPACE STATION. THE SKIN COVERING THE ROBOT'S PARTS LETS IT STICK TO THE METAL LIKE A GECKO STICKS TO A TREE. THIS IS NOT SCIENCE FICTION, IT IS SCIENCE FACT, AND THE PRODUCT OF A LONG PROCESS OF OBSERVATION, STUDY, AND MIMICRY OF THE ANIMAL WORLD. IN *ANIMAL TECH: CREEPERS & CRAWLERS*, READERS WILL LEARN THE STORY OF GECKSKIN AND FIVE OTHER TECHNOLOGIES INSPIRED BY REPTILES AND INSECTS. STUDENTS WILL FOLLOW THE STORIES OF REMARKABLE PEOPLE WORKING IN STEM FIELDS WHO HAVE DEVELOPED THESE LIFE-CHANGING TECHNOLOGIES.

ROBOTS SLITHER RYAN ANN HUNTER 2004 RHYMING VERSE DESCRIBES THE MANY THINGS THAT ROBOTS CAN DO, WHILE SIDEBARS PRESENT MORE DETAILED INFORMATION ON ACTUAL ROBOTS TODAY AND AS PLANNED FOR THE FUTURE.

ROBOTS AT HOME CHRISTINE ZUCHORA-WALSKE 2017-08-01 AUDISEE® eBooks WITH AUDIO COMBINE PROFESSIONAL NARRATION AND TEXT HIGHLIGHTING FOR AN ENGAGING READ ALOUD EXPERIENCE! ROBOTS WORK IN HOMES EVERY DAY. SOME VACUUM FLOORS OR MOW LAWNS. OTHERS KEEP PEOPLE COMPANY. AND SOME HELP KIDS HAVE FUN! WHAT ROBOTS MIGHT YOU FIND IN SOMEONE'S HOME? READ THIS BOOK TO FIND OUT!

ENGLISH PLUS ROBERT QUINN 2017

THE BIG GREEN BOOK OF THE BIG BLUE SEA HELAINE BECKER 2012 LOOKS AT THE OCEAN AND THE DRAMATIC ECOLOGICAL CHANGES THAT IT IS GOING THROUGH, WHILE OFFERING ACTIVITIES THAT DEMONSTRATE SCIENTIFIC PRINCIPLES RELATED TO THE ISSUES RAISED IN THE TEXT.

ZOOBOTS HELAINE BECKER 2014 WILD ROBOTS INSPIRED BY REAL ANIMALS.

AWESOME INNOVATIONS INSPIRED BY WHALES JIM CORRIGAN 2020-09-21 WHALES ARE THE WORLD'S LARGEST ANIMALS. THEY ROAM THE OCEAN IN SEARCH OF FOOD, CALLING TO EACH OTHER WITH SONG. HUMANS NEARLY HUNTED WHALES TO EXTINCTION. NOW WE LEARN FROM THEM, MAKING BETTER WIND TURBINES AND WATER FILTERS. WHALES MAY ALSO HELP WITH MEDICINE AND CLIMATE CHANGE. THEY ARE AWESOME.

YOU CAN READ HELAINE BECKER 2017-02-28 IN THIS FUN AND FUNNY CELEBRATION OF LITERACY, KIDS OF ALL AGES WILL DISCOVER THAT THE ACT OF READING IS A DARING ADVENTURE THAT CAN TAKE YOU ANYWHERE! YOU CAN READ AT THE PLAYGROUND, UNDER THE SEA, AT THE OPERA AND EVEN IN OUTER SPACE! IT TURNS OUT YOU CAN READ EVERYWHERE! AND WHEN YOU DO, YOU OPEN YOURSELF TO A UNIVERSE OF ADVENTURE. PRESENTED IN LIGHT-HEARTED, RIB-TICKLING VERSE THAT'S PERFECT FOR READING ALOUD, YOU CAN READ SINGS IT LOUD AND PROUD: BOOKS ARE AWESOME. AND SO ARE THE PEOPLE WHO READ THEM.

BOOST YOUR STEAM PROGRAM WITH GREAT LITERATURE AND ACTIVITIES LIZ KNOWLES Ed.D. 2018-06-01 YOU'VE CREATED A STEAM PROGRAM IN YOUR LIBRARY, BUT HOW DO YOU WORK LITERACY INTO THE CURRICULUM? WITH THIS COLLECTION OF RESOURCE RECOMMENDATIONS, DIRECTION FOR PROGRAM DEVELOPMENT, AND ACTIVITIES, YOU'LL HAVE STUDENTS READING PROFICIENTLY IN NO TIME. • PRESENTS COMPLEMENTARY ANNOTATED BOOKS AND DISCUSSION QUESTIONS TO ENGAGE STUDENTS IN STEAM TOPICS • OFFERS TOPICAL PROJECT AND PROBLEM-SOLVING ACTIVITY IDEAS FOR STUDENTS IN THE LIBRARY MAKERSPACE • PROVIDES RESEARCH AND ADDITIONAL RESOURCES FOR TEACHERS AND LIBRARIANS TO USE IN IMPLEMENTING SUCCESSFUL STEAM PROGRAMS

AWESOME INNOVATIONS INSPIRED BY DOLPHINS JIM CORRIGAN 2020-09-21 FEW SPECIES ARE AS SMART AND PLAYFUL AS DOLPHINS. THESE SPEEDSTERS OF THE SEA LIVE IN SOCIAL GROUPS. THEY HAVE TAUGHT US MANY USEFUL LESSONS ABOUT LIFE IN THE OCEAN. WITH NATURAL SONAR, THEY CAN SWIM AND HUNT WHILE BLINDFOLDED. SCIENTISTS STUDY DOLPHINS TO LEARN MORE ABOUT INTELLIGENCE IN ANIMALS AND IN HUMANS.

A PORCUPINE IN A PINE TREE HELAINE BECKER 2015-09 A TRULY CANADIAN CHRISTMAS CAROL IS NOW AVAILABLE IN A STURDY BOARD BOOK FORMAT! THIS CANADIAN CHRISTMAS CAROL BECAME AN INSTANT HOLIDAY CLASSIC. NOW THE WHOLE FAMILY CAN JOIN IN THE FUN WITH THIS NEW, SPECIALLY ADAPTED BOARD BOOK VERSION -- THE PERFECT FIRST CHRISTMAS BOOK FOR EVERY PRESCHOOLER ON YOUR LIST! ENJOY ALL OF WERNER ZIMMERMANN'S ZANY ILLUSTRATIONS, COUNT THE CHARACTERS FROM 1 TO 12, AND SING ALONG. IT'S CHRISTMAS AS ONLY CANADIANS CAN CELEBRATE IT -- WITH SQUIRRELS CURLING, MOUNTIES MUNCHING DONUTS, HOCKEY PLAYERS-A-LEAPING... AND A PORCUPINE IN A PINE TREE!

PICTURE-PERFECT STEM LESSONS, K-2 EMILY RACHEL MORGAN 2017

PICTURE-PERFECT SCIENCE LESSONS KAREN ANSBERRY 2010 IN THIS NEWLY REVISED AND EXPANDED 2ND EDITION OF PICTURE-PERFECT SCIENCE LESSONS, CLASSROOM VETERANS KAREN ANSBERRY AND EMILY MORGAN, WHO ALSO COACH TEACHERS THROUGH NATIONWIDE WORKSHOPS, OFFER TIME-CRUNCHED ELEMENTARY EDUCATORS COMPREHENSIVE BACKGROUND NOTES TO EACH CHAPTER, NEW READING STRATEGIES, AND SHOW HOW TO COMBINE SCIENCE AND READING IN A NATURAL WAY WITH CLASSROOM-TESTED LESSONS IN PHYSICAL SCIENCE, LIFE SCIENCE, AND EARTH AND SPACE SCIENCE.

ROBOTS INSPIRED BY NATURE ANGIE SMIBERT 2018-08-01 IDENTIFIES AND EXPLORES INNOVATIVE ROBOTIC TECHNOLOGY THAT WAS INSPIRED BY NATURE. ACCESSIBLE TEXT, SUPPLEMENTARY SIDEBARS, AND AN INTERESTING INFOGRAPHIC REVEAL FOR READERS THE SCIENCE BEHIND THESE TECHNOLOGIES AND THE ANIMALS AND PLANTS THAT INSPIRED THEM.

CHILDREN AND PAINTING CATHY WEISMAN TOPAL 1992 GRADE LEVEL: 1, 2, 3, 4, 5, 6, 7, K, P, E, I, T.

FUNDAMENTALS OF CREATURE DESIGN 3D TOTAL PUBLISHING 2020-07 THE WORLD'S BEST CREATURE DESIGNERS AND CONCEPT ARTISTS PROVIDE A GROUNDBREAKING AND UNIQUE INSIGHT INTO THEIR CREATIVE PROCESSES AND PRACTICES.

COMPUTATIONAL FAIRY TALES JEREMY KUBICA 2012 HAVE YOU EVER THOUGHT THAT COMPUTER SCIENCE SHOULD INCLUDE MORE

DRAGONS AND WIZARDS? COMPUTATIONAL FAIRY TALES INTRODUCES PRINCIPLES OF COMPUTATIONAL THINKING, ILLUSTRATING HIGH-LEVEL COMPUTER SCIENCE CONCEPTS, THE MOTIVATION BEHIND THEM, AND THEIR APPLICATION IN A NON-COMPUTER—FAIRY TALE—DOMAIN. IT'S A QUEST THAT WILL TAKE YOU FROM LEARNING THE BASICS OF PROGRAMMING IN A BLACKSMITH'S FORGE TO FIGHTING CURSES WITH RECURSION. FIFTEEN SEERS DELIVERED THE SAME PROPHECY, WITHOUT SO MUCH AS A SINGLE MINSTREL TO LIGHTEN THE MOOD: AN UNKNOWN DARKNESS THREATENS THE KINGDOM. SUDDENLY, PRINCESS ANN FINDS HERSELF SENT FORTH ALONE TO SAVE THE KINGDOM. LEAVING BEHIND HER HOME, FAMILY, AND PET TURTLE FIDO, PRINCESS ANN MUST FACE GOBLIN ATTACKS, MAGICAL CURSES, ARROGANT SCHOLARS, AN UNPLEASANT ORACLE, AND RUDE BOOLEAN WAITERS. ALONG THE WAY SHE MUST BUILD A WAR CHEST OF COMPUTATIONAL KNOWLEDGE TO SURVIVE THE COMING CHALLENGE.

TRANSPORTATION TECHNOLOGY INSPIRED BY NATURE WENDY HINOTE LANIER 2018-08-01 IDENTIFIES AND EXPLORES INNOVATIVE TECHNOLOGY IN THE TRANSPORTATION INDUSTRY THAT WAS INSPIRED BY NATURE. ACCESSIBLE TEXT, SUPPLEMENTARY SIDEBARS, AND AN INTERESTING INFOGRAPHIC REVEAL FOR READERS THE SCIENCE BEHIND THESE TECHNOLOGIES AND THE ANIMALS AND PLANTS THAT INSPIRED THEM.

LEGENDS OF ZITA THE SPACEGIRL BEN HATKE 2014-05-27 BEN HATKE BRINGS BACK OUR INTREPID SPACE HEROINE FOR ANOTHER DELIGHTFUL SCI-FI/FANTASY ADVENTURE. ZITA IS DETERMINED TO FIND HER WAY HOME TO EARTH, FOLLOWING THE EVENTS OF THE FIRST BOOK. BUT THINGS ARE NEVER SIMPLE, AND CERTAINLY NEVER EASY, IN SPACE. ZITA'S EXPLOITS FROM HER FIRST ADVENTURE HAVE MADE HER AN INTERGALACTIC MEGASTAR! BUT SHE'S ABOUT TO FIND OUT THAT FAME DOESN'T COME WITHOUT A PRICE. AND WHO CAN YOU TRUST WHEN YOUR TRUE SELF IS BEING ECLIPSED BY YOUR PUBLIC PERSONA, AND YOU'VE GOT A ROBOT DOPPELGÄNGER WREAKING HAVOC . . . WHILE WEARING YOUR FACE? STILL, IF ANYONE CAN FIND THEIR WAY THROUGH THIS INTRACTIBLE MESS OF MISTAKEN IDENTITY AND ALIEN INVADERS, IT'S THE INDOMITABLE ZITA, IN LEGENDS OF ZITA THE SPACEGIRL. LEGENDS OF ZITA THE SPACEGIRL IS ONE OF KIRKUS REVIEWS' BEST CHILDREN'S BOOKS OF 2012.

COUNTING ON KATHERINE HELAINE BECKER 2021-04-15 AS A CHILD, KATHERINE LOVED TO COUNT. SHE COUNTED THE STEPS ON THE ROAD, THE NUMBER OF DISHES AND SPOONS SHE WASHED IN THE KITCHEN SINK - EVERYTHING SHE COULD. BOUNDLESS, CURIOUS, AND EXCITED BY CALCULATIONS, YOUNG KATHERINE LONGED TO KNOW AS MUCH AS SHE COULD ABOUT MATHS, ABOUT THE UNIVERSE... FROM KATHERINE'S EARLY BEGINNINGS AS A GIFTED STUDENT TO HER HEROIC ACCOMPLISHMENTS AS A PROMINENT MATHEMATICIAN AT NASA, THIS IS THE TRUE STORY OF A GROUNDBREAKING AFRICAN-AMERICAN WOMAN WHO WENT ABOVE AND BEYOND WHAT WAS EXPECTED OF HER IN THE 1960S.

COUNTING ON KATHERINE: HOW KATHERINE JOHNSON SAVED APOLLO 13 HELAINE BECKER 2018-06-19 THE BOLD STORY OF KATHERINE JOHNSON, AN AFRICAN-AMERICAN MATHEMATICIAN WHO WORKED FOR NASA DURING THE SPACE RACE AND WAS DEPICTED IN THE FILM HIDDEN FIGURES. YOU'VE LIKELY HEARD OF THE HISTORIC APOLLO 13 MOON LANDING. BUT DO YOU KNOW ABOUT THE MATHEMATICAL GENIUS WHO MADE SURE THAT APOLLO 13 RETURNED SAFELY HOME? AS A CHILD, KATHERINE JOHNSON LOVED TO COUNT. SHE COUNTED THE STEPS ON THE ROAD, THE NUMBER OF DISHES AND SPOONS SHE WASHED IN THE KITCHEN SINK, EVERYTHING! BOUNDLESS, CURIOUS, AND EXCITED BY CALCULATIONS, YOUNG KATHERINE LONGED TO KNOW AS MUCH AS SHE COULD ABOUT MATH, ABOUT THE UNIVERSE. FROM KATHERINE'S EARLY BEGINNINGS AS A GIFTED STUDENT TO HER HEROIC ACCOMPLISHMENTS AS A PROMINENT MATHEMATICIAN AT NASA, COUNTING ON KATHERINE IS THE STORY OF A GROUNDBREAKING AMERICAN WOMAN WHO NOT ONLY CALCULATED THE COURSE OF MOON LANDINGS BUT, IN TURN, SAVED LIVES AND MADE ENORMOUS CONTRIBUTIONS TO HISTORY. CHRISTY OTTAVIANO BOOKS

ZOOBOTS HELAINE BECKER 2014-04-01 SCIENCE FICTION COMES TO LIFE IN THIS RIVETING SHOWCASE OF ZOOBOTS -- ROBOTS INSPIRED BY ANIMALS. DETAILED REPORTS ON MACHINES THAT LOOK AND BEHAVE LIKE CREEPY, CRAWLY CREATURES SUCH AS GECKOS, JELLYFISH AND BATS WILL ENCOURAGE BUDDING SCIENTISTS TO IMAGINE THE NEXT ZOOBOT.

IDEAS FROM NATURE MARY LINDEEN 2018-07-02 PEOPLE GET MANY GOOD IDEAS FROM NATURE. BIRDS, SNAKES, BURRS, AND LIZARDS HAVE LED TO GREAT IDEAS SUCH AS; BULLET TRAINS, SNAKEBOTS, VELCRO, AND BANDAGES. THIS NONFICTION BEGINNING-TO-READ BOOK CONTAINS HIGH-FREQUENCY WORDS AND CONTENT VOCABULARY. CONNECTING CONCEPTS PAGES INCLUDE A WORD LIST ALONG WITH ACTIVITIES TO STRENGTHEN EARLY SCIENCE AND LITERACY SKILLS, SUCH AS UNDERSTANDING NONFICTION TEXT, SCIENCE IN THE REAL WORLD, SCIENCE AND ACADEMIC LANGUAGE, FLUENCY, AND FINDING FURTHER INFORMATION. ALIGNS WITH NEXT GENERATION SCIENCE STANDARDS FOR GRADES K-3.

OVERCOMING SCHOOL REFUSAL JOANNE GARFI 2018-01-31 SCHOOL REFUSAL AFFECTS UP TO 5% OF CHILDREN AND IS A COMPLEX AND STRESSFUL ISSUE FOR THE CHILD, THEIR FAMILY AND SCHOOL. THE MORE TIME A CHILD IS AWAY FROM SCHOOL, THE MORE DIFFICULT IT IS FOR THE CHILD TO RESUME NORMAL SCHOOL LIFE. IF SCHOOL REFUSAL BECOMES AN ONGOING ISSUE IT CAN

NEGATIVELY IMPACT THE CHILD'S SOCIAL AND EDUCATIONAL DEVELOPMENT. PSYCHOLOGIST JOANNE GARFI SPENDS MOST OF HER WORKING LIFE ASSISTING PARENTS, TEACHERS, SCHOOL COUNSELLORS, CASEWORKERS, AND COMMUNITY POLICING OFFICERS ON HOW BEST TO DEAL WITH SCHOOL REFUSAL. NOW HER EXPERIENCES AND EXPERTISE ARE AVAILABLE IN THIS EASY-TO-READ PRACTICAL BOOK. OVERCOMING SCHOOL REFUSAL HELPS READERS UNDERSTAND THIS COMPLEX ISSUE BY EXPLAINING EXACTLY WHAT SCHOOL REFUSAL IS AND PROVIDES THEM WITH A RANGE OF STRATEGIES THEY CAN USE TO ASSIST CHILDREN IN RETURNING TO SCHOOL. AREAS COVERED INCLUDE: • TYPES OF SCHOOL REFUSERS • WHY CHILDREN REFUSE TO GO TO SCHOOL • SYMPTOMS • SHORT TERM AND LONG TERM CONSEQUENCES • ACCURATE ASSESSMENT • TREATMENT OPTIONS • WHAT PARENTS CAN DO • WHAT SCHOOLS CAN DO • DEALING WITH ANXIOUS HIGH ACHIEVERS • HOW TO HELP CHILDREN ON THE AUTISM SPECTRUM WITH SCHOOL REFUSAL

FUNDAMENTALS OF ROBOTICS DILIP KUMAR PRATIHAR 2017 THIS BOOK STARTS WITH AN INTRODUCTION TO ROBOTS AND ROBOTICS. FORWARD AND INVERSE KINEMATICS PROBLEMS OF SERIAL MANIPULATORS HAVE BEEN DEALT IN DETAILS. AFTER DISCUSSING TRAJECTORY PLANNING SCHEMES, INVERSE DYNAMICS PROBLEM OF SERIAL MANIPULATOR HAS BEEN SOLVED. A SEPARATE CHAPTER HAS BEEN DEVOTED TO THE ANALYSIS OF WHEELED ROBOT. IT THEN CONCENTRATES ON ANALYSIS OF TWO-LEGGED ROBOT. THE WORKING PRINCIPLES OF DIFFERENT TYPES OF SENSORS USED IN ROBOTS HAVE BEEN EXPLAINED IN ONE CHAPTER. VARIOUS STEPS INVOLVED IN ROBOT VISION HAVE THEN BEEN DISCUSSED IN DETAIL. THE LAST CHAPTER DEALS WITH DIFFERENT MOTION PLANNING SCHEMES OF ROBOTS. IT HAS BEEN WRITTEN TO FULFILL THE REQUIREMENTS OF A LARGE NUMBER OF READERS BELONGING TO VARIOUS DISCIPLINES OF ENGINEERING. IT WILL BE VERY MUCH HELPFUL TO THE STUDENTS, SCIENTISTS AND PRACTICING ENGINEERS.

TRASH REVOLUTION ERICA FYVIE 2018-04-03 THINK YOU KNOW ALL ABOUT HOW YOUR STUFF IMPACTS THE ENVIRONMENT? THINK AGAIN! WHERE DID ALL OUR "STUFF" COME FROM? AND WHERE DOES IT GO WHEN WE'RE DONE WITH IT? KIDS FIND OUT BY TRACKING THE LIFE CYCLES OF TYPICAL ITEMS IN A SCHOOL BACKPACK — WATER, FOOD, CLOTHING, PAPER, PLASTIC, METALS AND ELECTRONICS. THOUGH THEY ALL END AS WASTE, THERE ARE LOTS OF DECISIONS TO BE MADE ALONG THE WAY. AND KIDS WILL SEE THAT THERE'S AN IMPORTANT, CONSTRUCTIVE ROLE THEY CAN PLAY BY MAKING CHOICES THAT ARE GOOD FOR THEM — AND FOR THE PLANET! A COTTON T-SHIRT. A PLASTIC WATER BOTTLE. A CELL PHONE. KIDS WILL NEVER LOOK AT THEIR STUFF THE SAME WAY AGAIN!

CLOTHING INSPIRED BY NATURE WENDY HINOTE LANIER 2018-08-01 IDENTIFIES AND EXPLORES INNOVATIVE TECHNOLOGY IN THE CLOTHING INDUSTRY THAT WAS INSPIRED BY NATURE. ACCESSIBLE TEXT, SUPPLEMENTARY SIDEBARS, AND AN INTERESTING INFOGRAPHIC REVEAL FOR READERS THE SCIENCE BEHIND THESE TECHNOLOGIES AND THE ANIMALS AND PLANTS THAT INSPIRED THEM.

ANNALEISE CARR ANNALEISE CARR 2014-03-11 OVER EIGHT MONTHS WORTH OF PLANNING, HUNDREDS OF HOURS OF HARD PHYSICAL TRAINING, AMASSING A TEAM OF DEDICATED CREWMATES, APPROACHING SPONSORS AND COLLECTING DONATIONS -- AND FINALLY, SWIMMING FOR TWENTY-SEVEN HOURS ACROSS THE COLD, ROUGH WATERS OF LAKE ONTARIO. WHY WOULD A FOURTEEN-YEAR-OLD GIRL TAKE ON SUCH A CHALLENGE? FOR ANNALEISE CARR, THE MOTIVATION CAME NOT FROM A DESIRE FOR GLORY. HER ULTIMATE QUEST WAS TO RAISE MONEY FOR HER NEW FRIENDS AT CAMP TRILLIUM, A CHARITY THAT PROVIDES A CAMPING EXPERIENCE FOR KIDS WITH CANCER. WHAT KEPT HER GOING THROUGH THE COLD WATER, THE EXHAUSTION, AND THE TERRIFYING NIGHT SWIM WAS THE THOUGHT OF THOSE KIDS AND THEIR FAMILIES THAT SHE WAS HELPING. IN AUGUST OF 2012, SHE BECAME THE YOUNGEST PERSON TO CROSS LAKE ONTARIO, BREAKING THE RECORD SET MORE THAN FIFTY YEARS EARLIER BY MARILYN BELL. READERS WILL MEET AN EXTRAORDINARY FOURTEEN-YEAR-OLD GIRL IN THIS BOOK. AS SHE TELLS HER STORY, IT BECOMES CLEAR HOW IDEALISM AND AN INTENSE DESIRE TO HELP OTHERS CAN LEAD A YOUNG TEEN TO ALMOST UNIMAGINABLE ACHIEVEMENTS. [FRY READING LEVEL - 4.8]

CREATIVITY AND CHILDREN'S LITERATURE: NEW WAYS TO ENCOURAGE DIVERGENT THINKING MARIANNE SACCARDI 2014-07-31 TODAY'S STUDENTS NEED TO BE ABLE TO DO MORE THAN SCORE WELL ON TESTS—THEY MUST BE CREATIVE THINKERS AND PROBLEM SOLVERS. THE TOOLS IN THIS BOOK WILL HELP TEACHERS AND PARENTS START STUDENTS ON THE PATH TO BECOMING INNOVATIVE, SUCCESSFUL INDIVIDUALS IN THE 21ST CENTURY WORKFORCE. • DEMONSTRATES HOW TO USE CHILDREN'S LITERATURE SPECIFICALLY TO FOSTER DIVERGENT THINKING IN STUDENTS IN SCHOOL AND AT HOME • PROVIDES SPECIFIC SUGGESTIONS FOR ACTIVITIES AND EXAMPLE PROJECTS RELEVANT TO INDIVIDUAL BOOKS AS WELL AS TO ENTIRE TEACHING UNITS • SUPPLIES BIBLIOGRAPHIES OF HUNDREDS OF RECENTLY PUBLISHED CHILDREN'S BOOKS RECOMMENDED FOR CHILDREN OF DIFFERENT AGE LEVELS • CITES RESEARCH FINDINGS THAT UNDERSCORE THE VITAL IMPORTANCE OF DIVERGENT THINKING IN TODAY'S WORLD AND ITS IMPORTANCE TO THE BUSINESS COMMUNITY

ANIMAL-INSPIRED ROBOTS ROBIN KOONTZ 2019-02-01 SCIENTISTS AND ENGINEERS STUDY AND LEARN FROM NATURE TO HELP SOLVE PROBLEMS AND IMPROVE THE WORLD. LEARN HOW BIOMIMICS HAS CONTRIBUTED TO ROBOTICS. THIS TITLE SUPPORTS NGSS FOR ENGINEERING DESIGN.

CHITCHAT JUDE ISABELLA 2013 DISCUSSES THE DEVELOPMENT OF DIFFERENT LANGUAGES FROM AROUND THE WORLD, FOCUSING ON THE IMPORTANCE OF GRAMMAR, VARIOUS ALPHABETS, AND PRONUNCIATION.

HUBOTS HELAINE BECKER 2018-10-02 THE FUTURE IS NOW. HERE COME THE HUBOTS! USING INCREASINGLY SOPHISTICATED ARTIFICIAL INTELLIGENCE (AI) AND EMBODIED INTELLIGENCE (EI), A NEW GENERATION OF ROBOTS IS BEING DESIGNED TO LOOK, ACT AND EVEN THINK JUST LIKE HUMANS! HUBOTS, OR HUMAN-INSPIRED ROBOTS, ARE EXPANDING THE BOUNDARIES OF WHAT ROBOTS CAN DO. FOR EXAMPLE, THEY CAN FIGHT FIRES ON THE HIGH SEAS, SET UP COLONIES ON OTHER PLANETS AND PROVIDE HUMANS WITH COMPANIONSHIP. THIS BOOK INTRODUCES READERS TO TEN DIFFERENT ROBOTS, THE CHALLENGES THEY WERE EACH DESIGNED TO MEET AND THE SUPERPOWERS THAT ENABLE THEM TO TAKE ON TASKS HUMANS CAN'T. HUMAN-LIKE ROBOTS LIVE AMONG US!

LINES, BARS AND CIRCLES HELAINE BECKER 2017-04-04 BORN IN SCOTLAND OVER 250 YEARS AGO, WILLIAM PLAYFAIR WAS A DREAMER WHO SAW THE WORLD DIFFERENTLY FROM OTHER PEOPLE. UNFORTUNATELY, THIS SKILL DIDN'T EASILY TRANSLATE INTO THE FAME AND FORTUNE HE HOPED FOR. IN FACT, IT OFTEN GOT HIM INTO TROUBLE WITH FAMILY, FRIENDS AND BOSSES. BUT WILL'S INNOVATIVE VISION DID INSPIRE A BIG IDEA THAT WOULD SET HIM APART: HE TURNED NUMBERS INTO PICTURES BY CREATING LINE GRAPHS, BAR GRAPHS AND PIE CHARTS! NUMBERS AS PICTURES? THERE'S AN IDEA THAT'S OFF THE CHARTS!

ELEMENTS OF ROBOTICS MORDECHAI BEN-ARI 2017-10-25 THIS OPEN ACCESS BOOK BRIDGES THE GAP BETWEEN PLAYING WITH ROBOTS IN SCHOOL AND STUDYING ROBOTICS AT THE UPPER UNDERGRADUATE AND GRADUATE LEVELS TO PREPARE FOR CAREERS IN INDUSTRY AND RESEARCH. ROBOTIC ALGORITHMS ARE PRESENTED FORMALLY, BUT USING ONLY MATHEMATICS KNOWN BY HIGH-SCHOOL AND FIRST-YEAR COLLEGE STUDENTS, SUCH AS CALCULUS, MATRICES AND PROBABILITY. CONCEPTS AND ALGORITHMS ARE EXPLAINED THROUGH DETAILED DIAGRAMS AND CALCULATIONS. ELEMENTS OF ROBOTICS PRESENTS AN OVERVIEW OF DIFFERENT TYPES OF ROBOTS AND THE COMPONENTS USED TO BUILD ROBOTS, BUT FOCUSES ON ROBOTIC ALGORITHMS: SIMPLE ALGORITHMS LIKE ODOMETRY AND FEEDBACK CONTROL, AS WELL AS ALGORITHMS FOR ADVANCED TOPICS LIKE LOCALIZATION, MAPPING, IMAGE PROCESSING, MACHINE LEARNING AND SWARM ROBOTICS. THESE ALGORITHMS ARE DEMONSTRATED IN SIMPLIFIED CONTEXTS THAT ENABLE DETAILED COMPUTATIONS TO BE PERFORMED AND FEASIBLE ACTIVITIES TO BE POSED. STUDENTS WHO STUDY THESE SIMPLIFIED DEMONSTRATIONS WILL BE WELL PREPARED FOR ADVANCED STUDY OF ROBOTICS. THE ALGORITHMS ARE PRESENTED AT A RELATIVELY ABSTRACT LEVEL, NOT TIED TO ANY SPECIFIC ROBOT. INSTEAD A GENERIC ROBOT IS DEFINED THAT USES ELEMENTS COMMON TO MOST EDUCATIONAL ROBOTS: DIFFERENTIAL DRIVE WITH TWO MOTORS, PROXIMITY SENSORS AND SOME METHOD OF DISPLAYING OUTPUT TO THE USER. THE THEORY IS SUPPLEMENTED WITH OVER 100 ACTIVITIES, MOST OF WHICH CAN BE SUCCESSFULLY IMPLEMENTED USING INEXPENSIVE EDUCATIONAL ROBOTS. ACTIVITIES THAT REQUIRE MORE COMPUTATION CAN BE PROGRAMMED ON A COMPUTER. ARCHIVES ARE AVAILABLE WITH SUGGESTED IMPLEMENTATIONS FOR THE THYMIO ROBOT AND STANDALONE PROGRAMS IN PYTHON.

NEXT TIME YOU SEE A PILL BUG EMILY MORGAN 2013 CHANCES ARE THAT JUST UNDER A NEARBY ROCK, YOU'LL SPOT A ROLY-POLY PILL BUG. ENCOURAGE A CHILD TO TAKE A CLOSE LOOK, AND INTRODUCE A FASCINATING CREATURE. GENTLY PICK IT UP AND WATCH AS IT ROLLS INTO A BALL AND UNROLLS TO TAKE A WALK. THIS COUSIN TO LOBSTERS AND CRABS SHEDS ITS CRUSTY SKIN AND WILL TICKLE YOUR HAND WITH ITS 14 (COUNT 'EM!) WIGGLY LEGS. AWAKEN A SENSE OF WONDER IN A CHILD WITH THE NEXT TIME YOU SEE SERIES FROM NSTA KIDS. THE BOOKS WILL INSPIRE ELEMENTARY-AGE CHILDREN TO EXPERIENCE THE ENCHANTMENT OF EVERYDAY PHENOMENA, SUCH AS PILL BUGS, FIREFLIES, SEASHELLS, AND SUNSETS. FREE SUPPLEMENTARY ACTIVITIES ARE AVAILABLE ON THE NSTA WEBSITE. ESPECIALLY DESIGNED TO BE EXPERIENCED WITH AN ADULT--BE IT A PARENT, TEACHER, OR FRIEND--NEXT TIME YOU SEE BOOKS SERVE AS A REMINDER THAT YOU DON'T HAVE TO LOOK FAR TO FIND SOMETHING REMARKABLE IN NATURE.