



KEEP MOVING FORWARD: GROWTH AND DEVELOPMENT THROUGH SCIENCE USING PICTURE BOOKS

Lisa and Mardhiah
Librarians
National Library Board





Lisa Zuliana Binte Zulkifli
Librarian

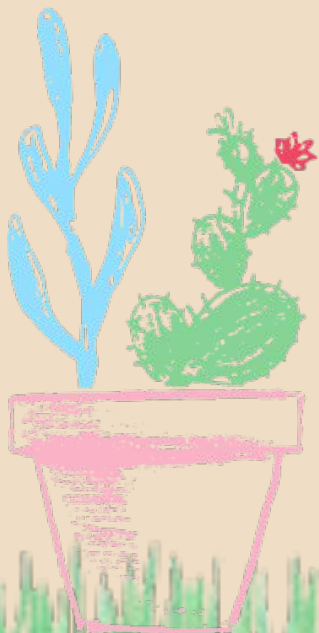


Mardhiah Binte Mahamood
Librarian

Happy to meet you! :)

What Will be Covered:

- What is STEAM?
- Bloom's Taxonomy & Sensory Exploration + Recorded Demonstration
- Popular Picture Books to Introduce STEAM Concepts
- Enhance Learning through Non-Fiction Books
- Keep Trying! Growth Mindset and the Importance of Failure





What is STEAM?

S - Science

T - Technology

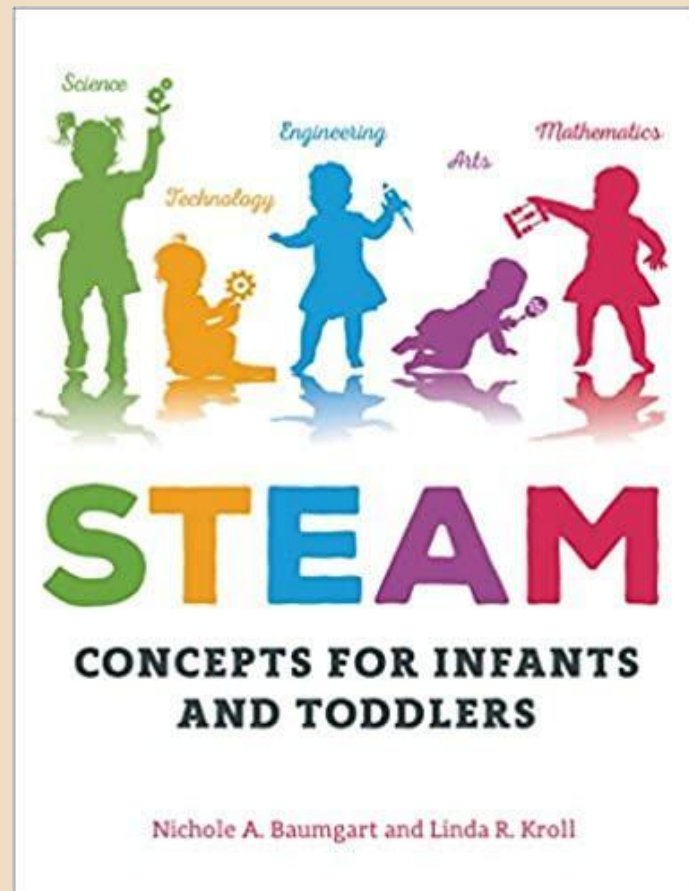
E - Engineering

A - Art

M - Mathematics



What is STEAM?



STEAM Concepts for Infants and Toddlers

By Nichole A. Baumgart & Linda Ruth Kroll

Available in NLB Overdrive

<https://nlb.overdrive.com/media/3684719>



STEAM concepts encourage children "to find and explore interesting and important questions".

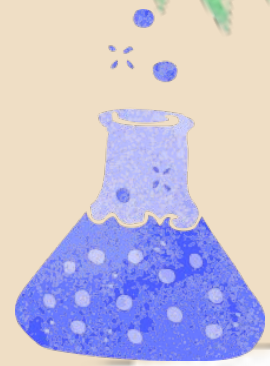
(Baumgart & Kroll, 2018, p. 25)

Frame "a given learning experience and provoke(s)...thinking...a process for understanding that goes beyond knowing a defined set of facts."

(Baumgart & Kroll, 2018, p. 29)

All book covers are the copyright of their respective publishing companies.

Why is STEAM important?



"Develops robust thinking dispositions...as well as a strong learning mindset and confidence"

"Boosts literacy development by providing [opportunities] for children to expand vocabulary"

"Understand[ing] direct causal relationships...and more complicated causal relationships.."

"Using statistical inference is present very early in development..."

"...Evoke(s) curiosity, motivate(s) them to explore, lead(s) them to engage in hypothesis testing..."

"...lead to greater problem-solving skills and better equip [them] for the dynamic world..."

Quoted from "The Roots of STEM Success"

Research Paper by Bay Area Discovery Centre

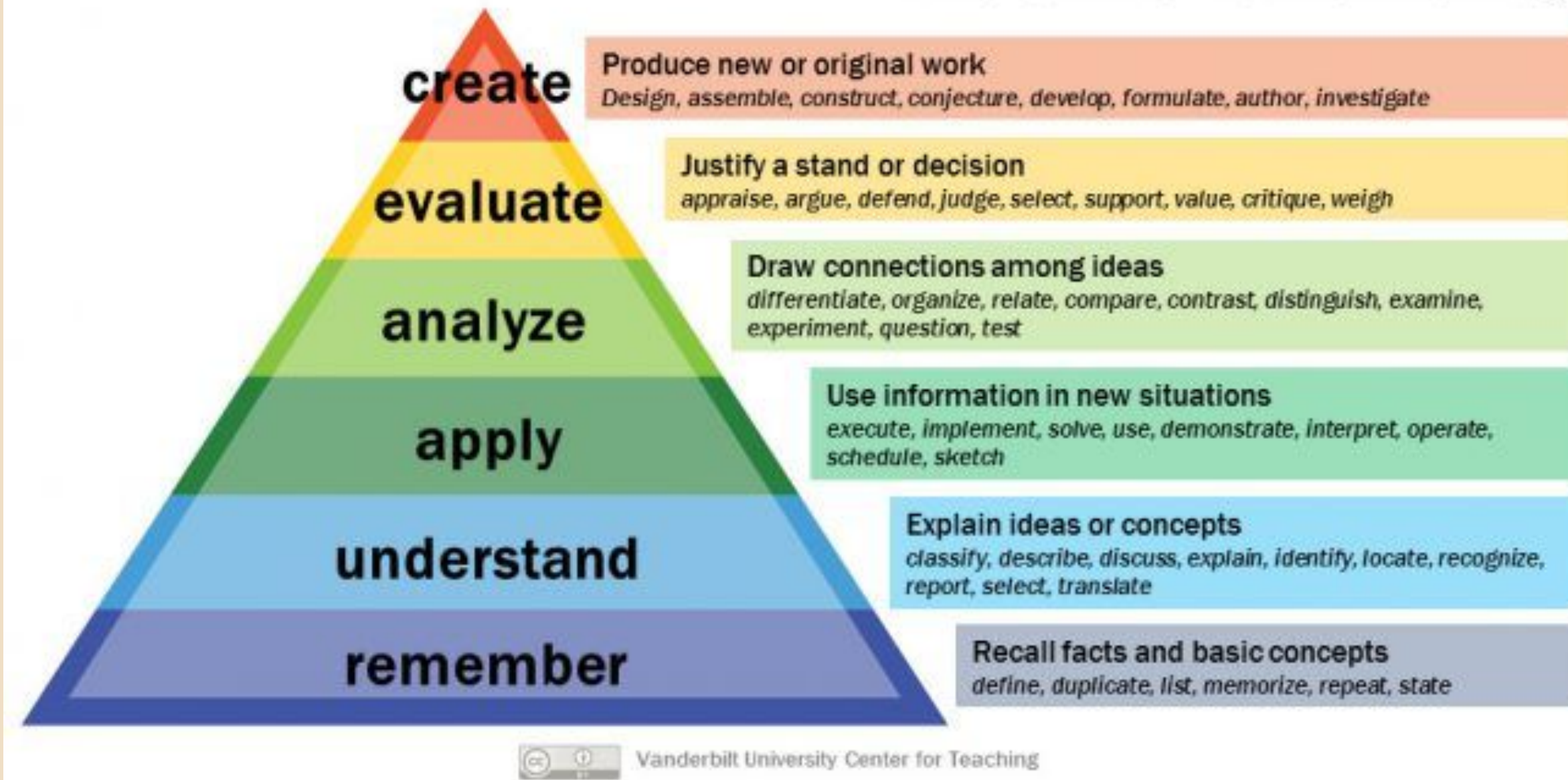


<https://go.gov.sg/rootsofstemsuccess>



BLOOM'S TAXONOMY

Bloom's Taxonomy

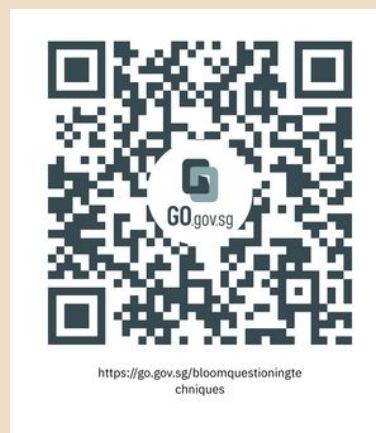


QUESTIONS TO APPLY DURING STORYTELLING

These are based on Bloom's Taxonomy and NAEYC's Big Questions for Young Minds by Janis Straser and Lisa Bresson.

- Remember - Identify, Name, Count, Repeat, Recall
- Understand - Describe, Discuss, Explain, Summarise
- Apply - Explain why, dramatise, identify with/relate to
- Analyse - Recognise change, Experiment, Infer, Compare, Contrast
- Evaluate - Express opinion, Judge, Defend/Criticise
- Create - Make, Design, Construct, Author

Ask questions related to thinking processes to your child when reading together!





DEMONSTRATION (Recorded)



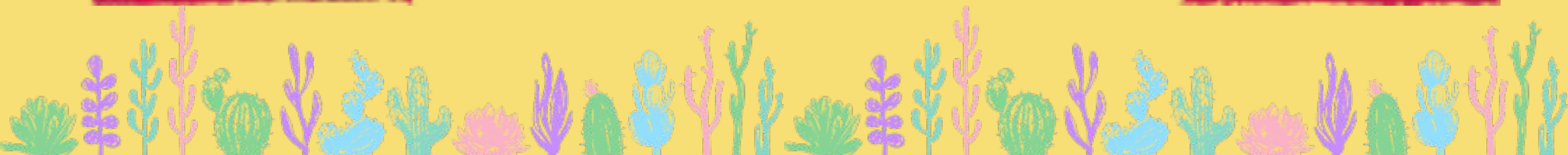
STEAM Programme on Weather

Done by our fellow librarian, Norah



Popular Picture Books to Introduce STEAM

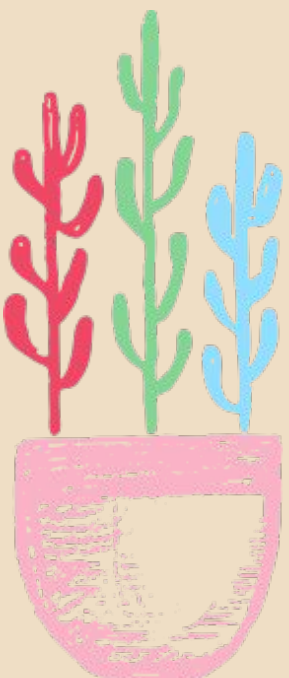
Concepts



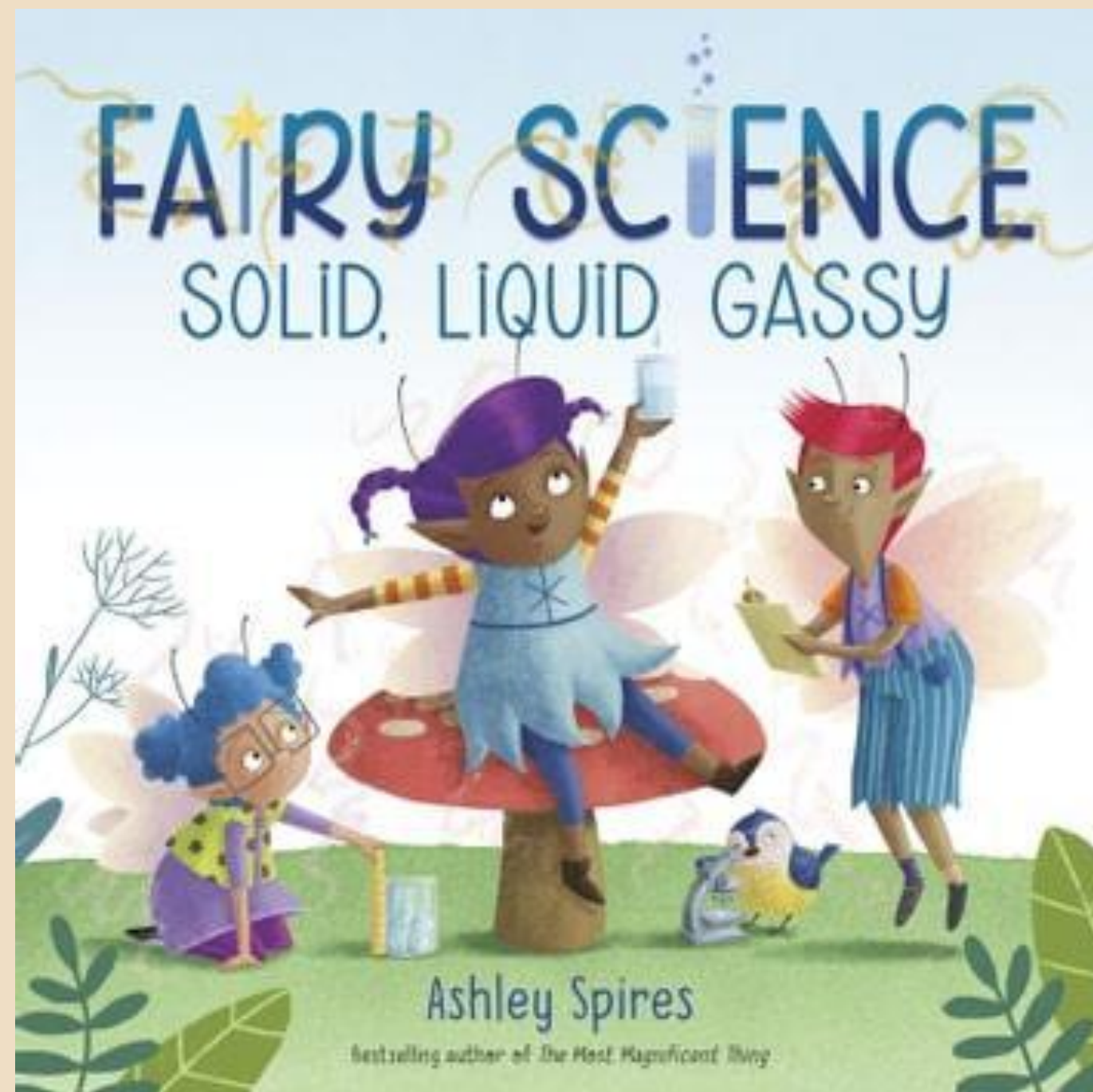
Science Concepts



- Applied Chemistry
- Applied Mathematics
- Applied Physics - Engineering
- Biotechnology - Bacteria and Viruses
- Food Sciences
- Life Sciences - Animals, Plants, Human Body



Applied Chemistry



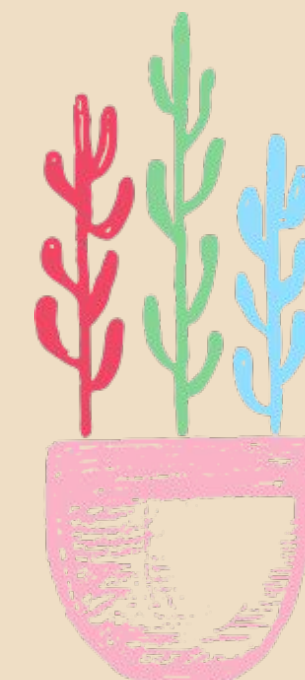
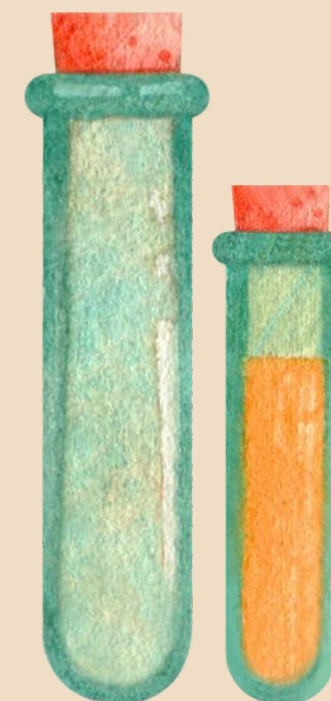
Fairy Science: Solid, Liquid, Gassy

By: Ashley Spires

Publisher: New York : Crown Books for Young Readers,
[2020]

Section: Early Literacy Picture Books

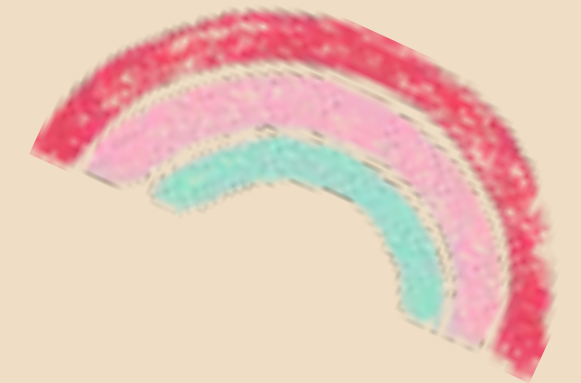
Call Number: English SPI



All book covers are the copyright of their respective publishing companies.



Applied Chemistry



Fairy Science: Solid, Liquid, Gassy promotes the fundamentals of Science!

Children can learn about the water cycle in this enchanting
STEM-and-magic-filled book.

Watch how the fairies ask
questions and investigate certain
factors; they always ask "why".



Gathering evidence and then
making informed guesses.



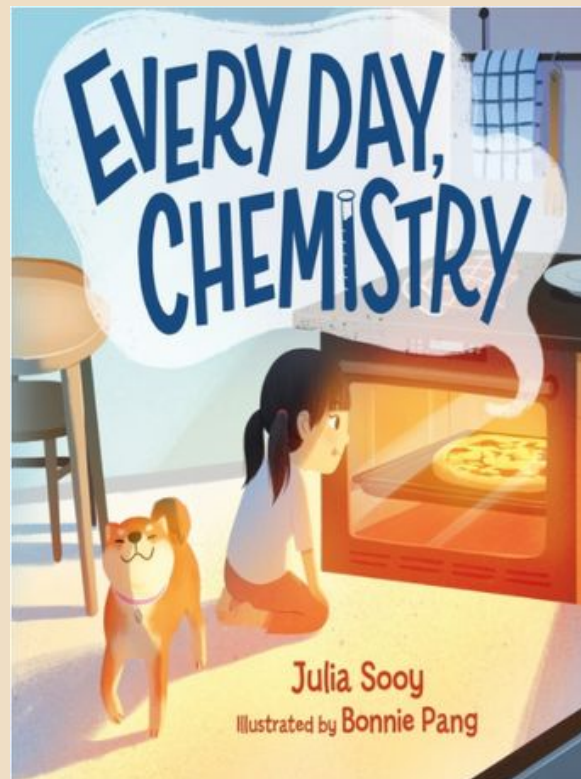
Show your child how things that
appear "magical" are the result of
Science!

**Observation and inquiry
are important STEAM skills.**

**Analyse and deduce the
evidence gathered**

**Children learn best with
fun! Rainbow, slime and lava
are magical parts of
Science.**

More... on Applied Chemistry



Every Day, Chemistry

By: Julia Sooy & Bonnie Pang

Overdrive:

<https://nlb.overdrive.com/media/6301243>



<https://go.gov.sg/everydaychemistry>



Mix it Up!

By: Hervé Tullet

Publisher: San Francisco, CA :

Handprint, an imprint of
Chronicle Books LLC, 2021

Section: Early Literacy
Concepts

Call Number: 535.6 TUL



Too Much Slime!

By: Frances Gilbert & Vin

Vogel (Illustrator)

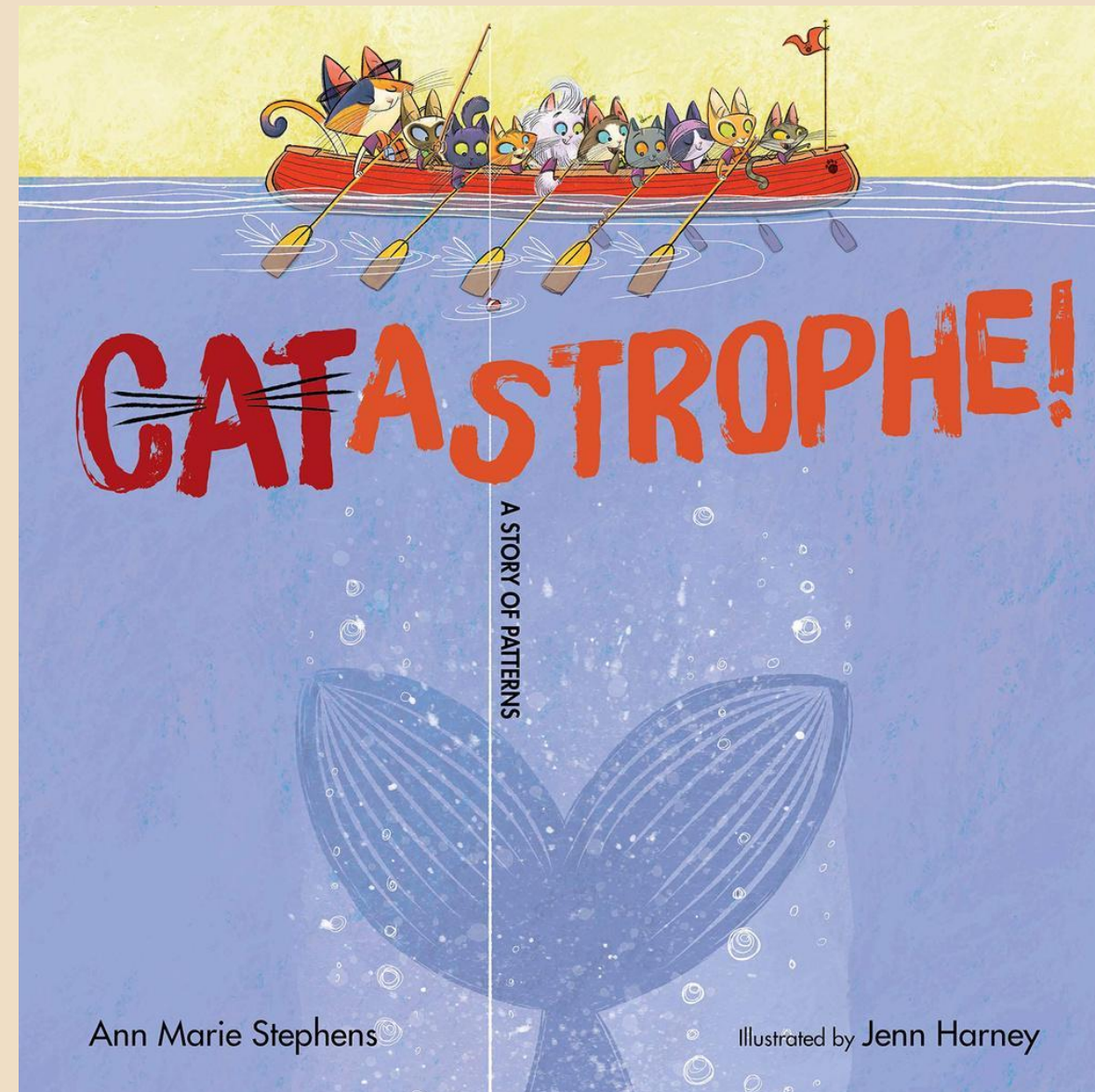
Publisher: New York : Random
House, [2021]

Section: Early Literacy
Picture Books

Call Number: English GIL

All book covers are the copyright of their respective publishing companies.

Applied Mathematics



Catastrophe A Story of Patterns

By: Ann Marie Stephens & Jenn Harney (Illustrator)

Publisher: New York : Boyds Mills Press, an imprint of Boyd's Mills & Kane, [2021]

Section: Early Literacy Picture Books

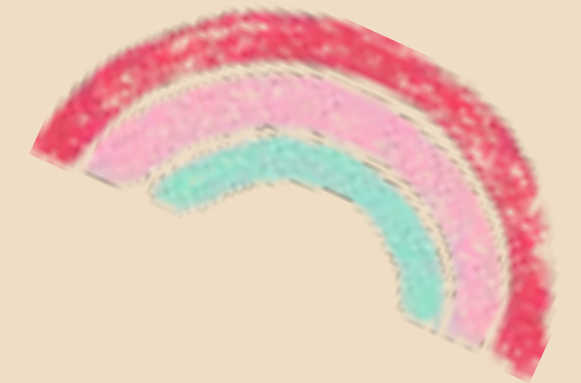
Call Number: English STE

All book covers are the copyright of their respective publishing companies.



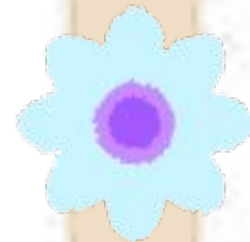


Applied Mathematics



Catastrophe is about a group of cats who wish to go on a fun fishing trip. Let's learn about patterns as this kitty crew try to organise themselves!

Work with the hints in the book and explain to your child how the characters in the story illustrate them.



Point to the cats and ask them if they recognise the pattern core. Have them guess what comes next in the pattern!



Find patterns in your daily life; it could be how they arrange their toys or books, or have them create their own pattern.

Have your child point to the pictures and make guesses.

With patterns, ask them questions regarding positions.

Find patterns outside of the book. They can be colour, shape or size patterns.

More... on Applied Mathematics



The Marvellous Sugee Cake

By: Quek Hong Shin

Publisher: Singapore : Epigram Books, 2020

Section: Children Singapore

Call Number: English QUE



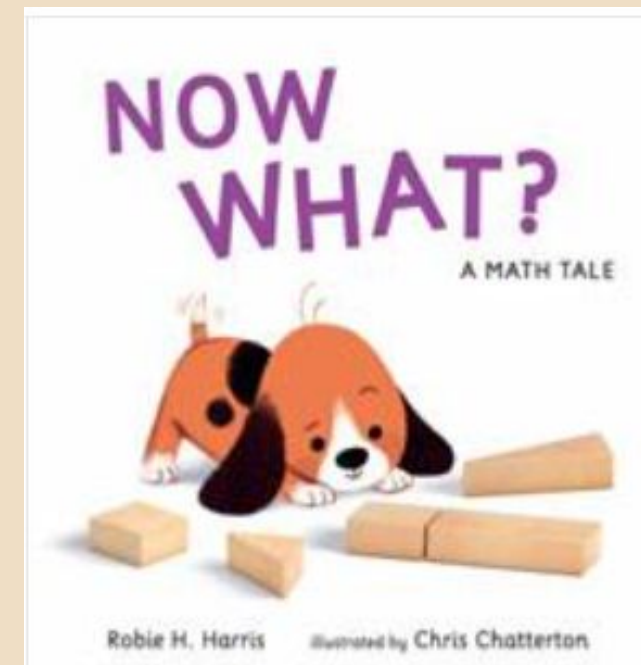
Save It!

By: Cinders McLeod

Publisher: New York : Nancy Paulsen Books, [2019]

Section: Early Literacy Picture Books

Call Number: English MAC



Now What?

By: Robie H. Harris & Chris Chatterton (Illustrator)

Publisher: Somerville, Massachusetts : Candlewick Press, 2019

Section: Early Literacy Picture Books

Call Number: English HAR



Count on Me

By: Miguel Tanco

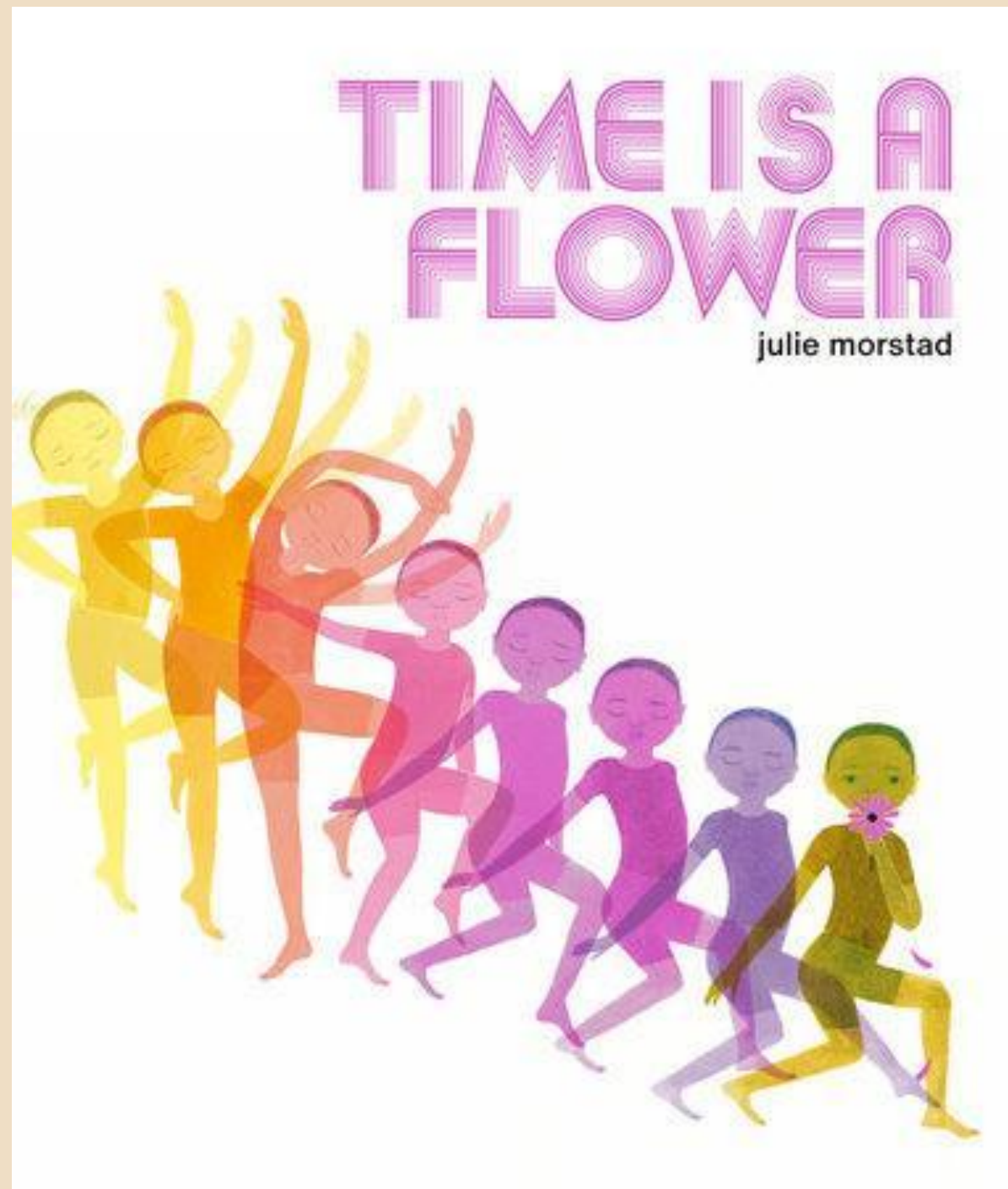
Publisher: Toronto : Tundra, an imprint of Penguin Random House Canada Young Readers, [2019]

Section: Early Literacy Picture Books

Call Number: English TAN

All book covers are the copyright of their respective publishing companies.

Applied Physics



Time is a Flower

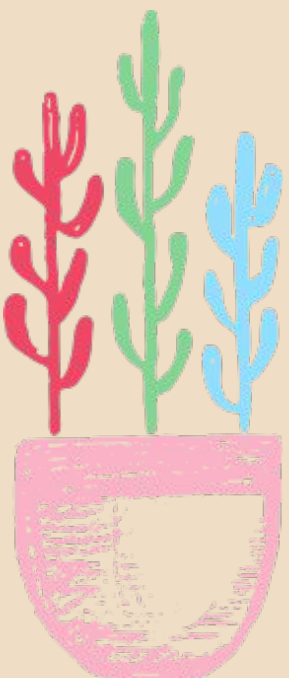
By: Julie Morstad

Publisher: [Toronto, ON] : Tundra Books, [2021]

Section: Early Literacy Picture Books

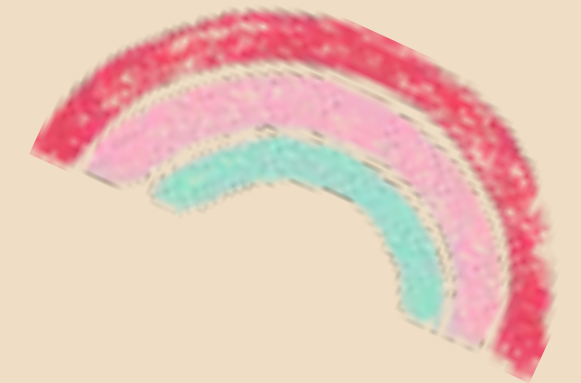
Call Number: English MOR

All book covers are the copyright of their respective publishing companies.



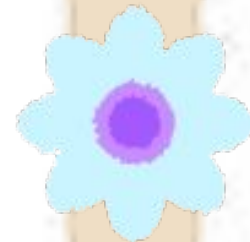


Applied Physics



How is time a flower? Does it grow? Does it move? Let's learn about an abstract scientific concept with this beautiful book.

Engage with the simple illustrations with the book; have your child point and ask them about the clock.



Have your child compare how objects change with time like flowers and shadows.



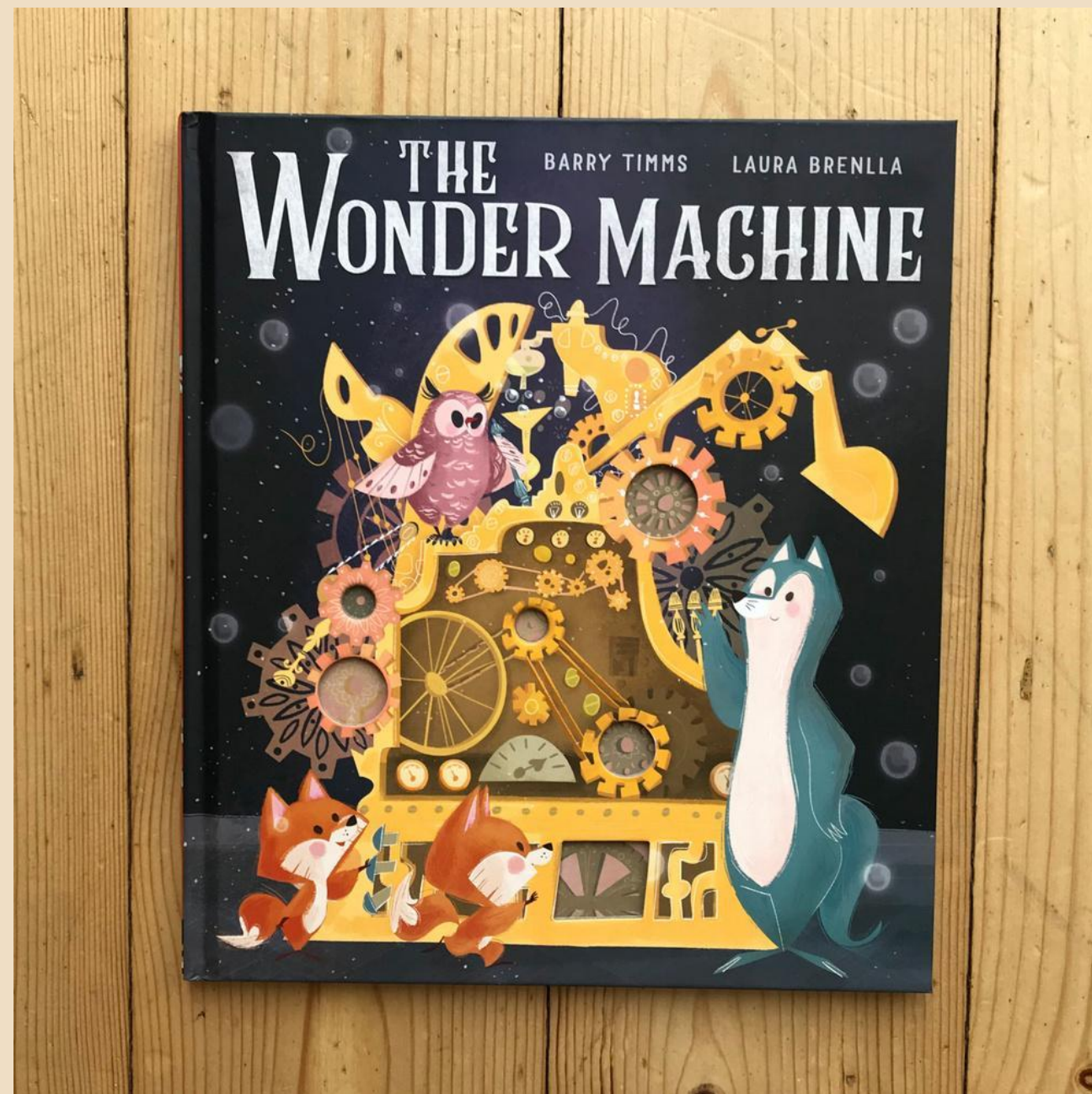
Encourage your child to make comparisons and provide scientific guesses or predictions. Time is a changing constant.

You can even have them try and guess the names of the clock first.

As time is about progression, making comparisons is a good skill to learn through it.

Bring in concepts about age and growth too.

Engineering



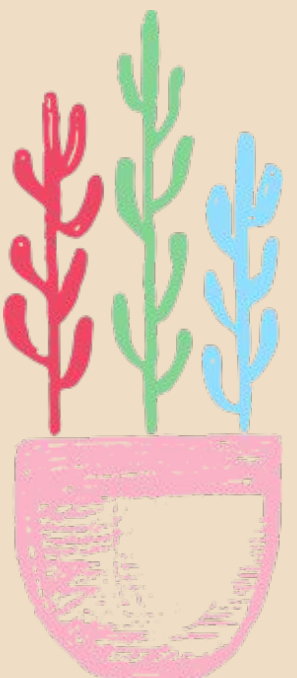
The Wonder Machine

By: Barry Timms & Laura Brenlla (Illustrator)

Publisher: London : Little Tiger Press Ltd, 2020

Section: Early Literacy Picture Books

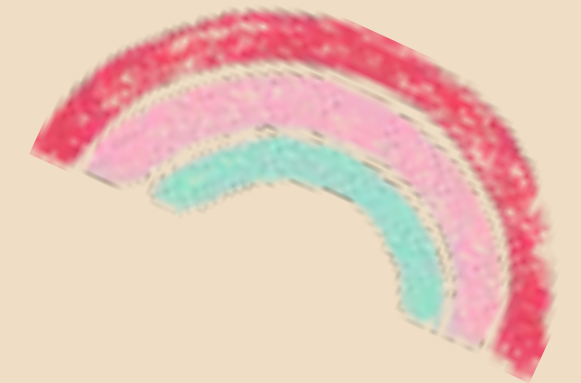
Call Number: English TIM



All book covers are the copyright of their respective publishing companies.



Engineering



A wolf inventor wishes to create the most wonderful machine in the world so that she can improve the life of others. But what of her own life?

Follow the wolf's journey with your child and ask them how she found these materials.



As your child flips the flaps, ask them what they observe and why characters do certain things.



Have your child identify these tools that aid us in inventing. You can even show real examples!

Ask your child at the end if they remember the materials they found.

How did Wolf manage to get all the materials? Have your child make a logical guess.

Tools help little engineers. Introduce them with this book.

More... on Applied Physics and Engineering



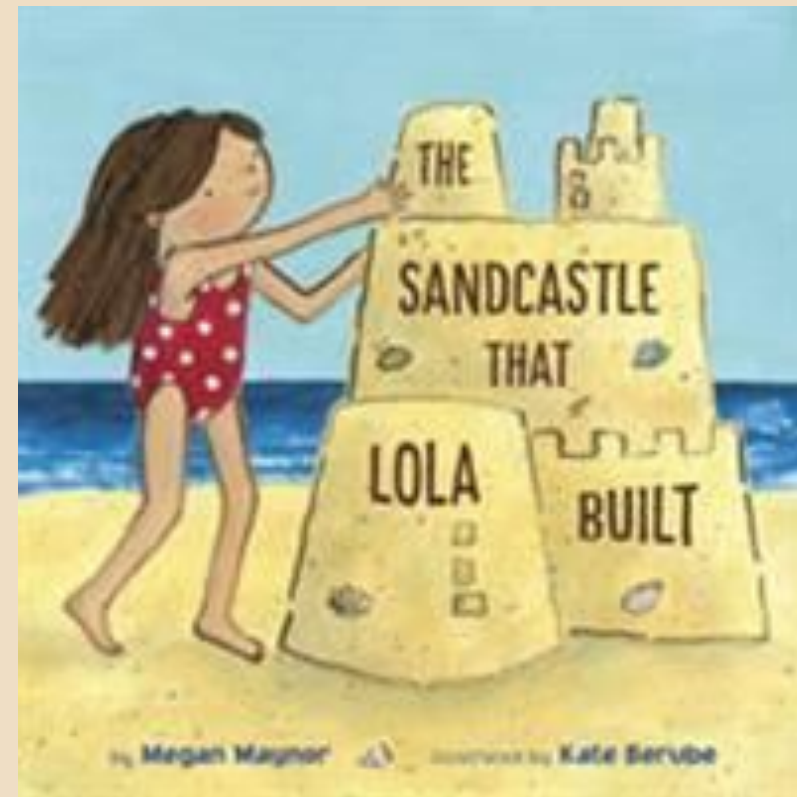
Elephant Island

By: Leo Timmers

Publisher: Wellington, New Zealand : Gecko Press, 2022

Section: Early Literacy Picture Books

Call Number: English TIM



The Sandcastle That Lola Built

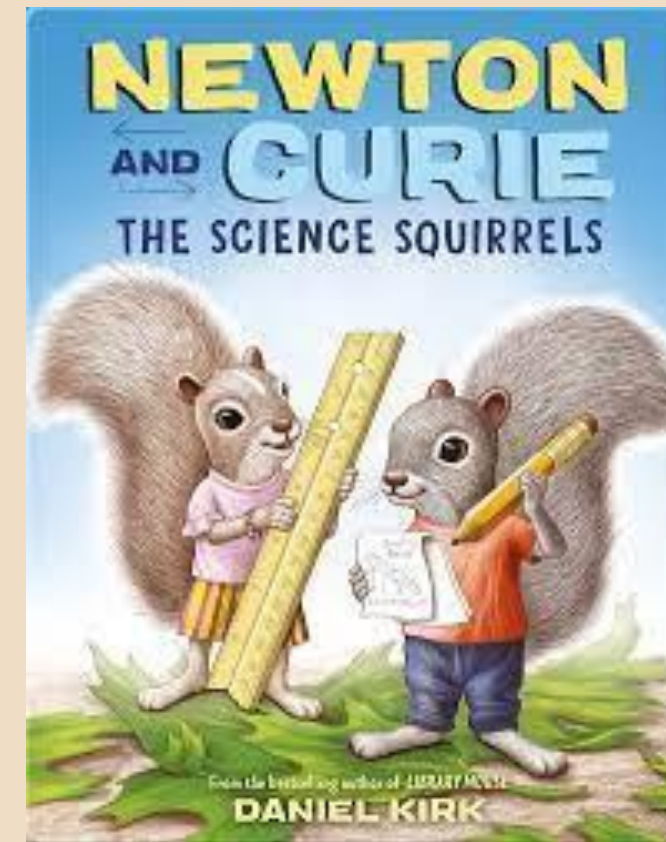
By: Megan Maynor & Kate Berube

(Illustrator)

Publisher: New York : New York : Alfred A. Knopf, 2018

Section: Early Literacy Picture Books

Call Number: English MAY



Newton and Curie: The Science Squirrels

By: Daniel Kirk

Publisher: New York : Abrams Books for Young Readers, 2020
Section: Early Literacy Picture Books

Call Number: English KIR



Mira Forecasts the Future

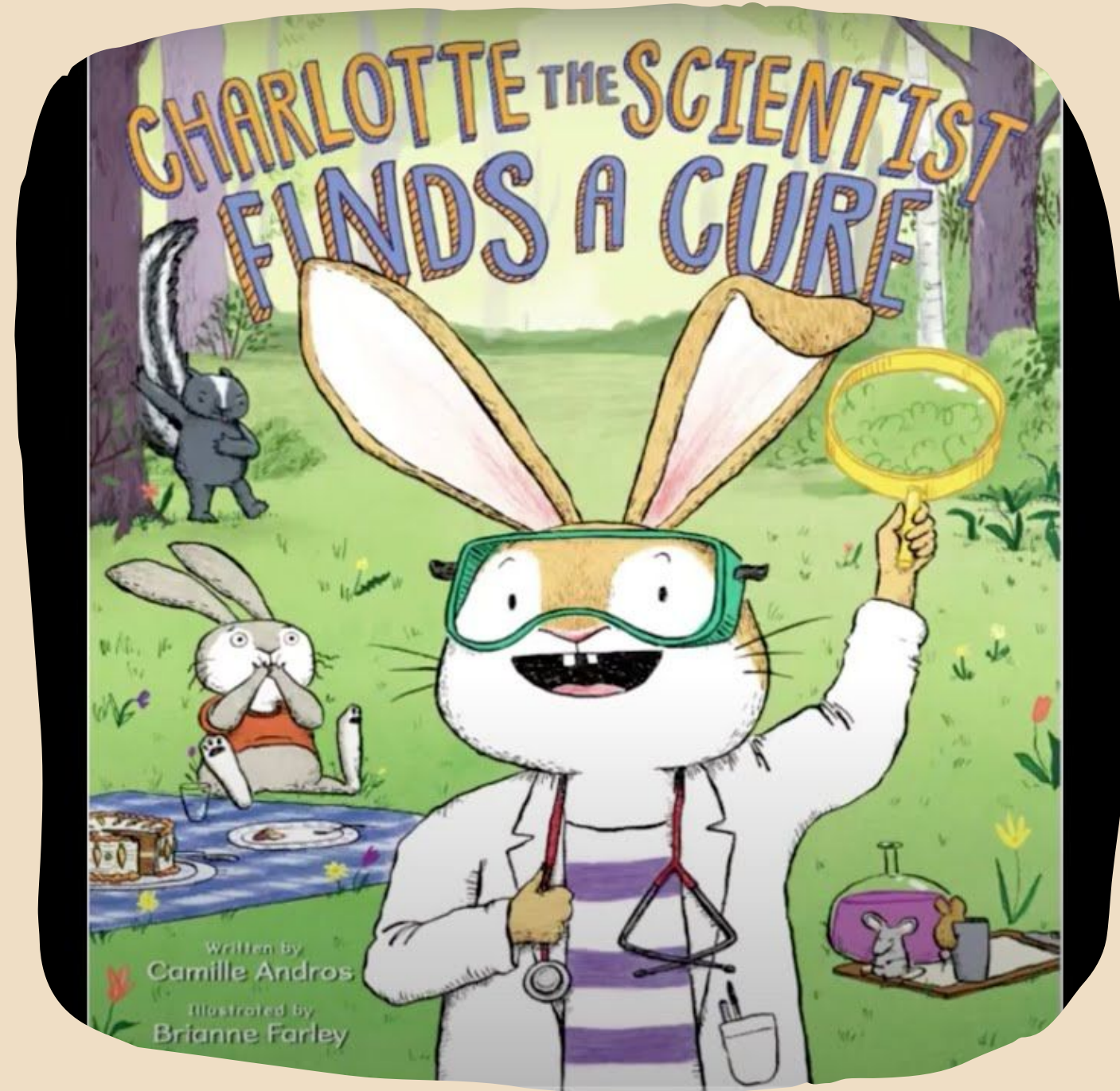
By: Kell Andrews & Lissy Marlin (Illustrator)

Publisher: New York : Sterling Children's Books, [2016]
Section: Early Literacy Picture Books

Call Number: English AND

All book covers are the copyright of their respective publishing companies.

Biotechnology - Bacteria, Viruses and Genetics



Charlotte the Scientist Finds a Cure

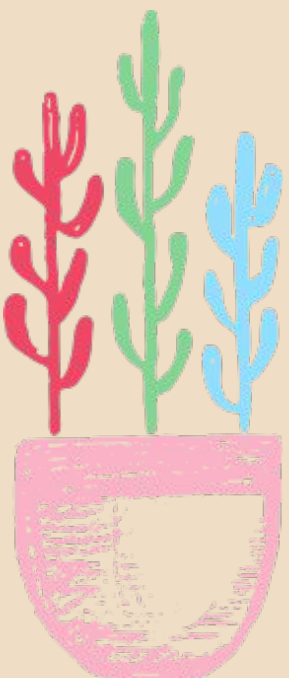
By: Camille Andros & Brianne Farley (Illustrator)

Publisher: New York ; Boston : Clarion Books, [2019]

Section: Early Literacy Picture Books

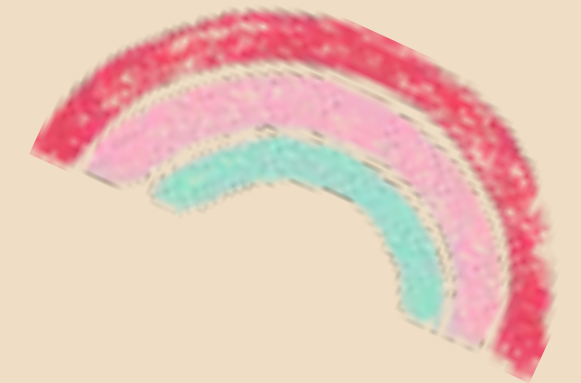
Call Number: English AND

All book covers are the copyright of their respective publishing companies.





Biotechnology



A young rabbit with dreams of making a difference proves herself when a mysterious malady affects her friends and family.

Have your child assume the
role of a doctor like
Charlotte!



Charlotte puts on protective
equipment and performs tests.
These are what we see in
hospitals.



The book argues that anyone can
make a difference, no matter how
small.

**Have them make diagnosis
like Charlotte in the book.
Dress up and make it fun.**

**Test your child's knowledge.
Ask them what is the
function of each of these
equipment.**

**An encouraging mindset is
necessary to bolster a
passion for STEAM
education.**

More... on Biotechnology

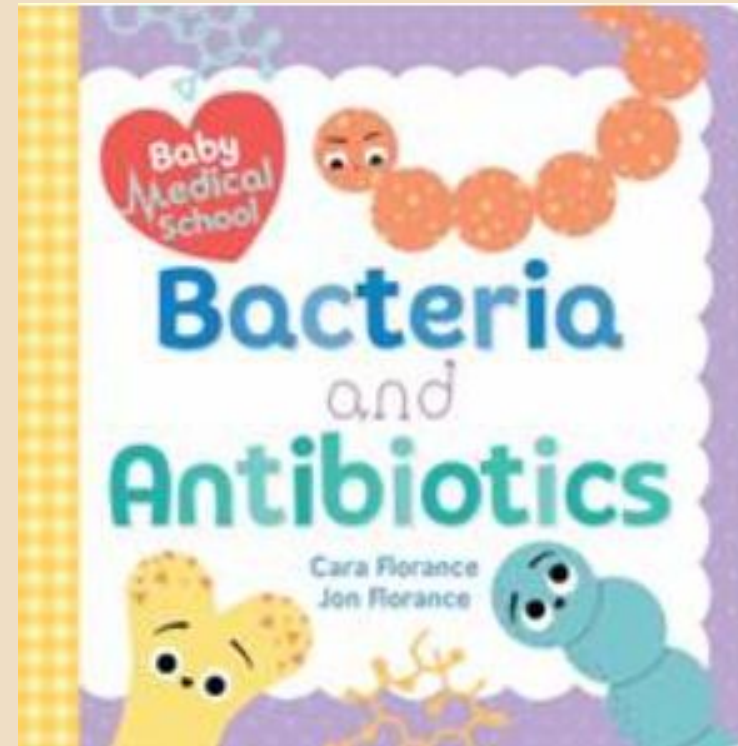


Sick Simon

By: Dan Krall

Publisher: New York : Simon & Schuster Books for Young Readers, an imprint of Simon & Schuster Children's Publishing Division, [2015]

Section: Early Literacy Picture Books

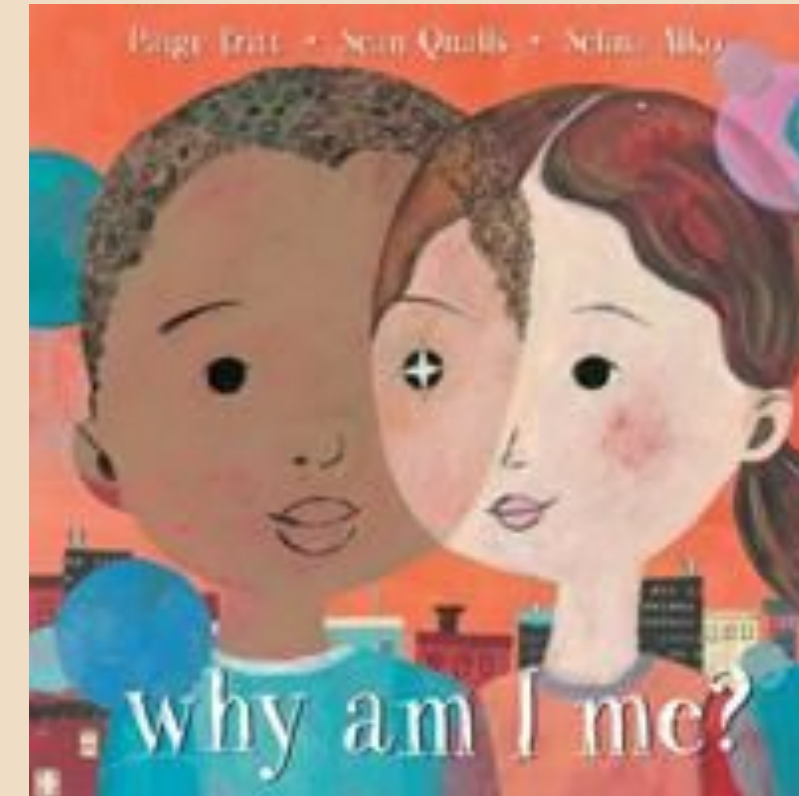


Bacteria and Antibiotics

By: Cara Florance

**Publisher: Naperville, IL : Sourcebooks eXplore, [2020]
Section: Early Literacy Sense & Sensations
Call Number: English 579.3 FLO**

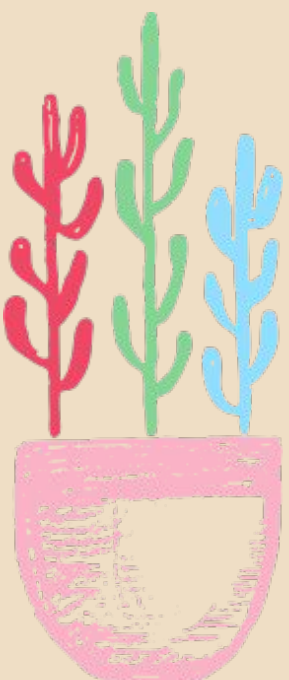
All book covers are the copyright of their respective publishing companies.



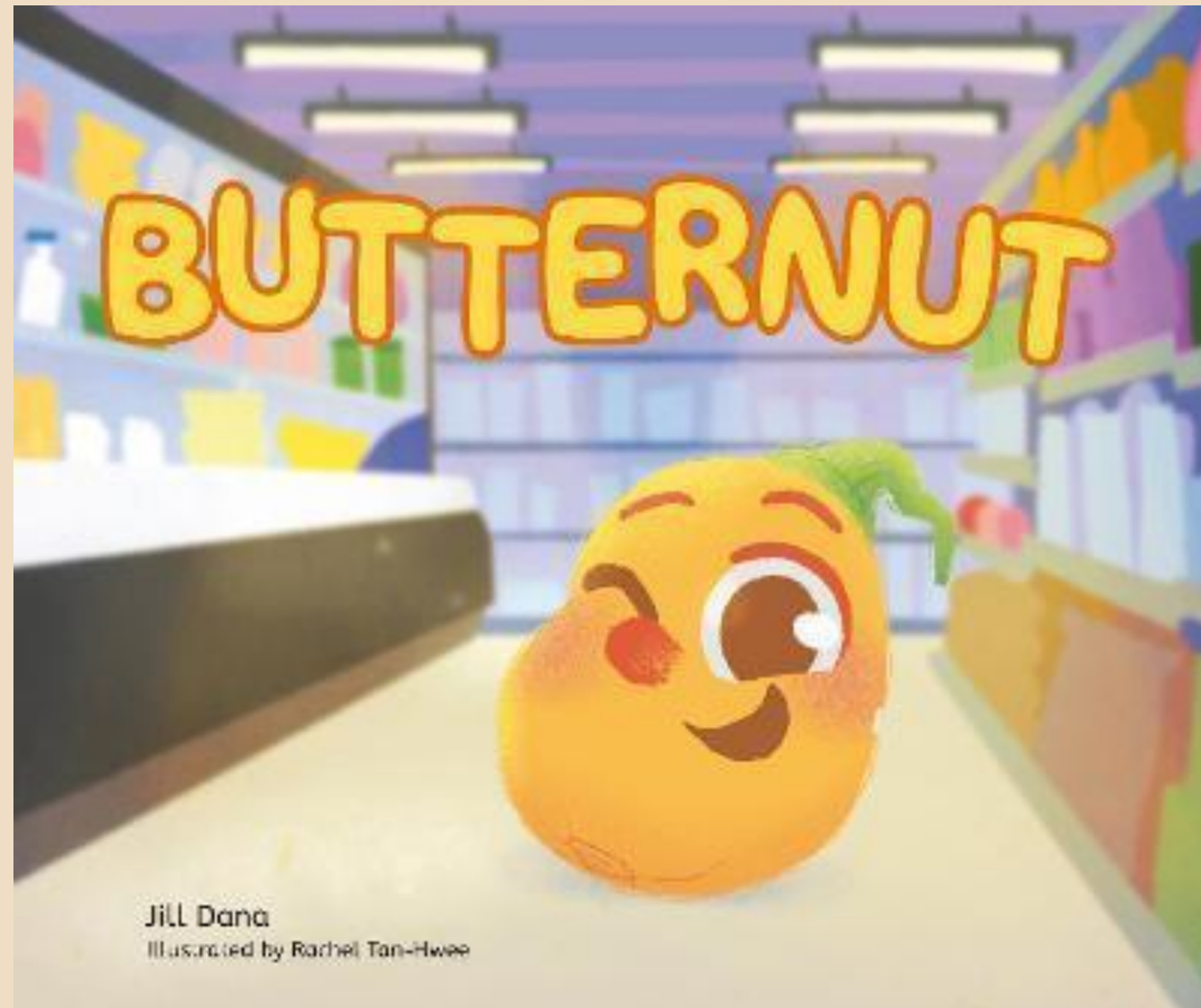
Why am I Me?

By: Paige Britt, Sean Qualls & Selina Alko (Illustrator)

**Publisher: New York : Scholastic Press, 2017
Section: Early Literacy Picture Books
Call Number: English BRI**



Food Sciences



Butternut

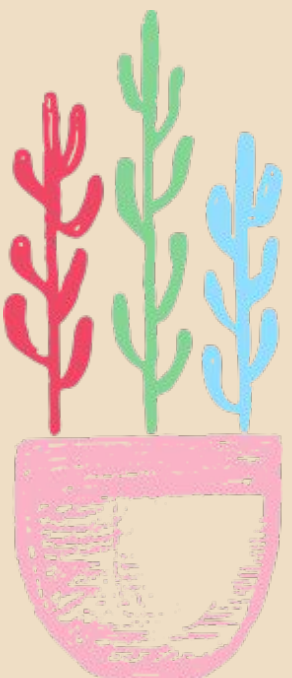
By: Jill Dana & Rachel Tan-Hwee (Illustrator)

Publisher: Singapore : Marshall Cavendish Children, [2021]

Section: Early Literacy Picture Books

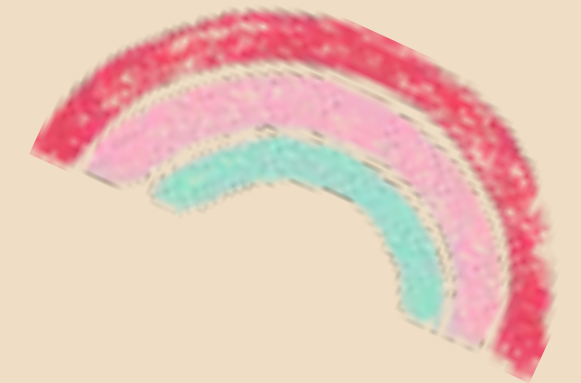
Call Number: English DAN

All book covers are the copyright of their respective publishing companies.



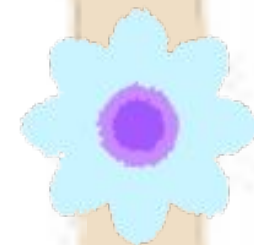


Food Sciences



A butternut squash is wondering what sort of food he is; is he a fruit, a vegetable or a nut?

Have your child point out the adjectives used to describe the foods.



Look at classification! An important part about Science is classifying things based on their properties.



This story teaches your child how food is being processed and transported to the supermarket.

This leads your child to learn about different types of foods and their properties.

Draw up a table and have your child classify the foods accordingly!

The book offers a helpful infographic at the end that you can run through with your child.

More... on Food Science



Avocado Asks "What am I?"

By: Momoko Abe

Publisher: New York : Doubleday

Books for Young Readers, [2021]

Section: Early Literacy Picture
Books

Call Number: English ABE



Are We Pears Yet?

By: Miranda Paul

Publisher: New York : Roaring

Brook Press, 2017

Section: Early Literacy Picture
Books

Call Number: English PAU



A Cooked-Up Fairy Tale

By: Penny Parker Klostermann &

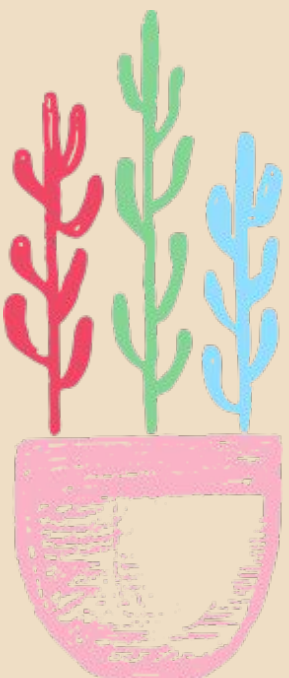
Ben Mantle (Illustrator)

Publisher: New York : Random
House, [2017]

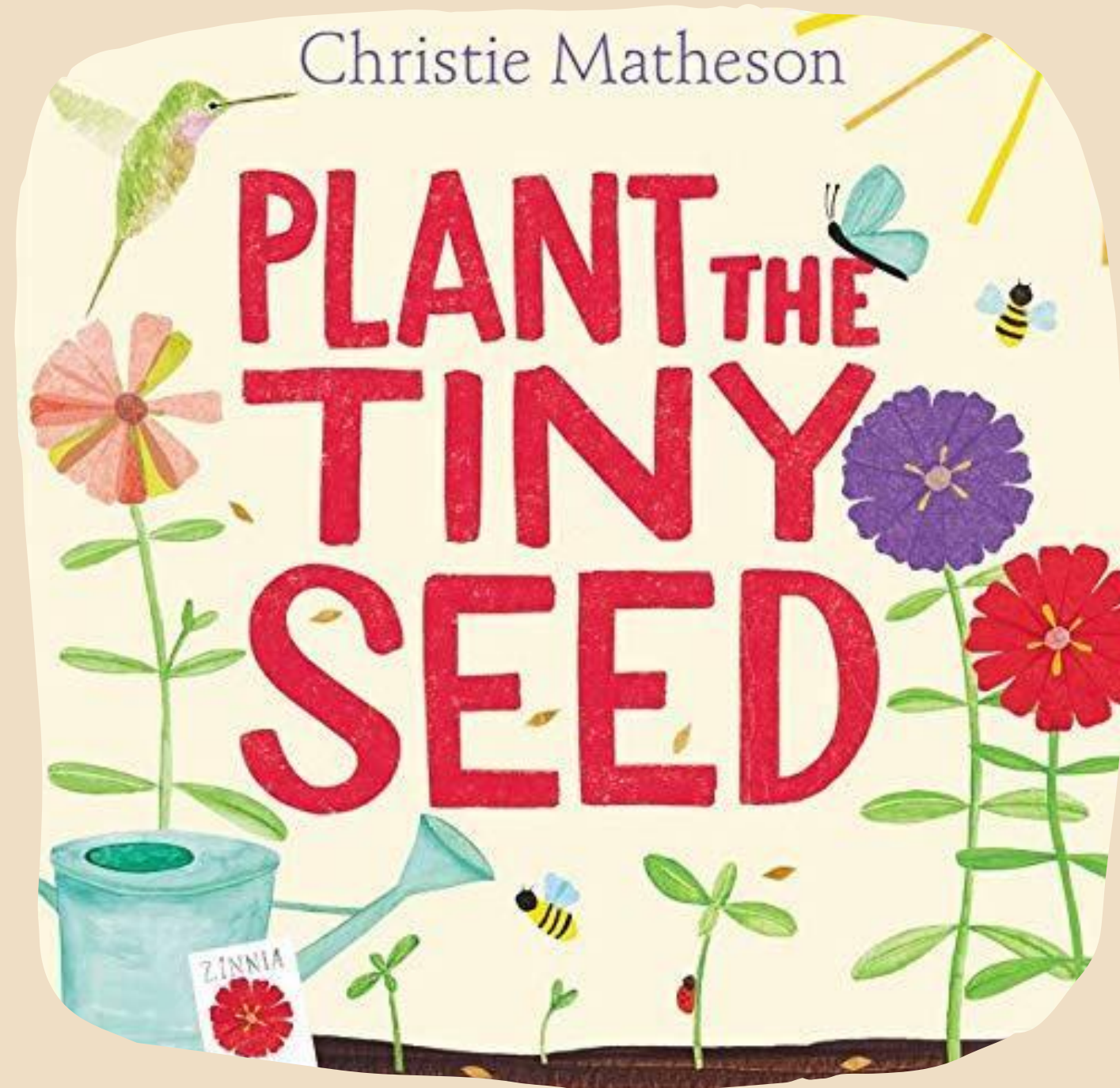
Section: Early Literacy Picture
Books

Call Number: English KLO

All book covers are the copyright of their respective publishing companies.



Life Sciences



Plant the Tiny Seed

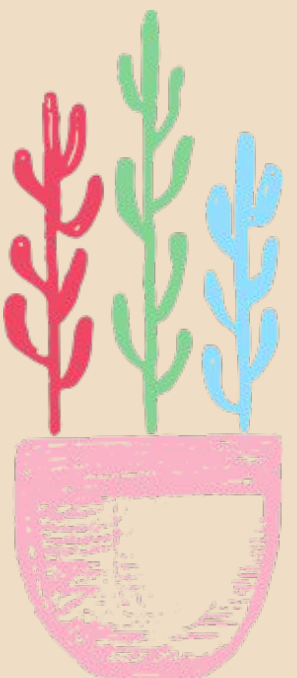
By: Christie Matheson

Publisher: New York : Greenwillow Books, an imprint of
HarperCollinsPublishers [2017]

Section: Early Literacy Picture Books

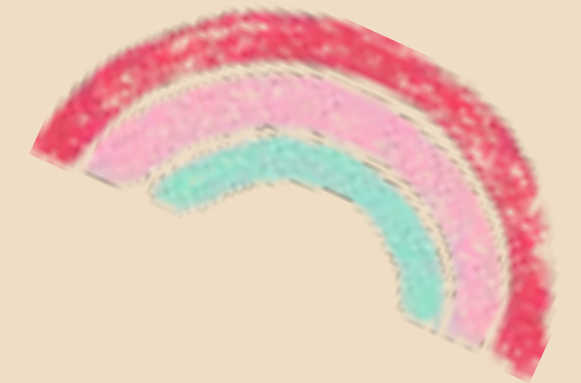
Call Number: English MAT

All book covers are the copyright of their respective publishing companies.





Life Sciences



Plant the Tiny Seed introduces the STEAM concept of the natural world: Plants.

Children learn about the life cycle of a plant and what living things require to grow and develop.

There is always one focal point on each page. This tests observation and analysis.



The story encourages interaction. The child's participation is integral to the progress of the book.



Have your child tend to a simple potted plant to bring these concepts to life.

Have your child interact with these focal points.

Ask them what would be the potential effects of these actions.

Have them share with you what changes they see day by day.

More... on Life Sciences



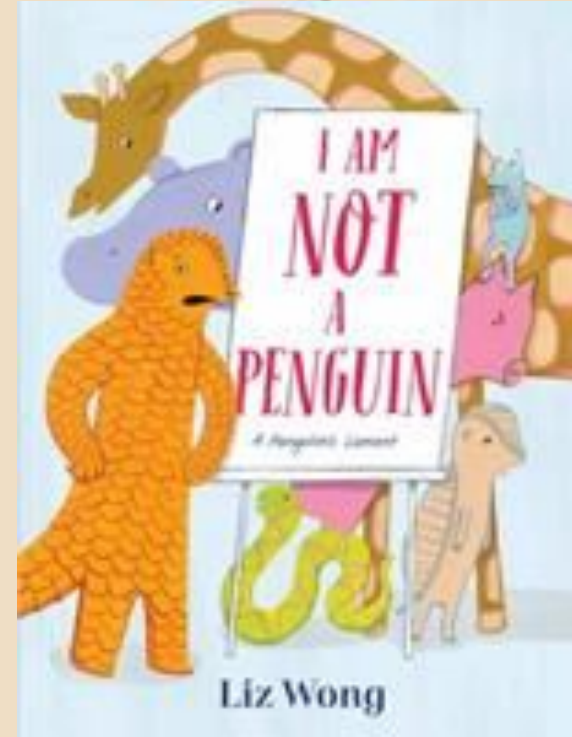
The Bug Collector

By: Alex G. Griffiths

Publisher: London, England : Andersen Press, 2019.

Section: Early Literacy Picture Books

Call Number: English GRI



I Am Not a Penguin

By: Liz Wong

Publisher: New York : Alfred A. Knopf, [2021]

Section: Early Literacy Picture Books

Call Number: English WON



Little Acorn

By: Melanie Joyce & Gina

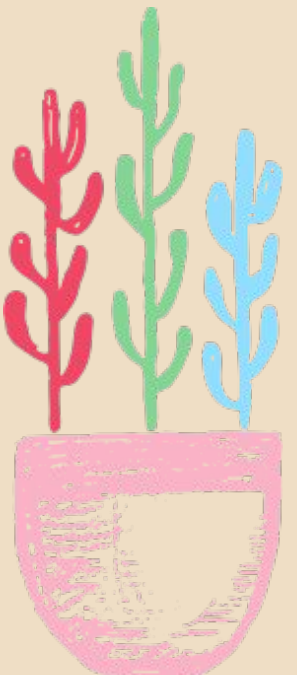
Maldonado (Illustrator)

Publisher: Northampton, United Kingdom : Autumn Publishing/Igloo Books, 2019

Section: Early Literacy Picture Books

Call Number: English JOY

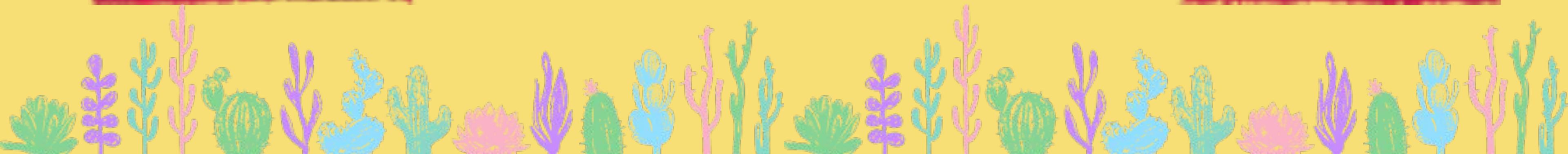
All book covers are the copyright of their respective publishing companies.





FACT WITH NON-FICTION

Enhance Learning Through
Non-Fiction Books



Supplement Fiction with Non-Fiction

Fiction books introduce concepts to your children in an enjoyable manner.

Non-fiction books fill in the gaps of information and lead children to discover answers.

Ask your child what they have learnt to check understanding.

Revisit fiction books afterwards and ask them if they can recognise what they have learnt from non-fiction books.



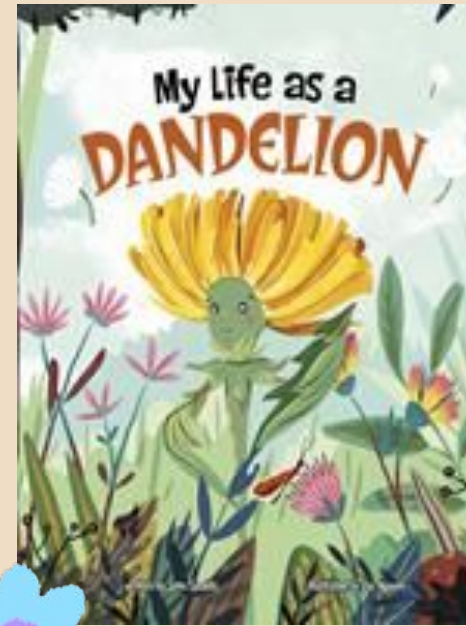
Non-Fiction Books for Plant the Tiny Seed (Life Sciences)

My Life as a Dandelion

By: John Sazaklis

Publisher: North Mankato : Picture

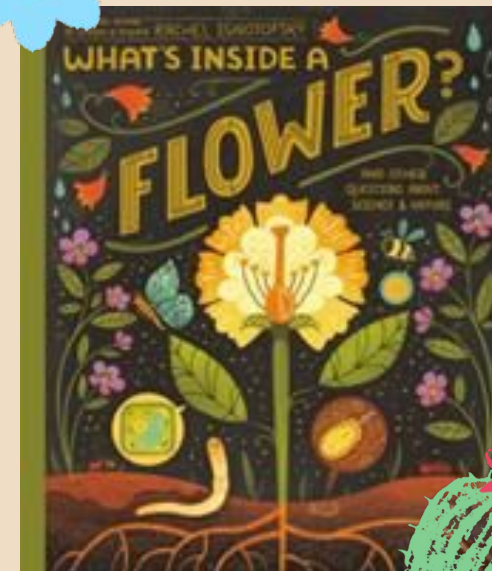
Window Books, 2022
<https://nlb.overdrive.com/media/6379253>



What's Inside a Flower? And Other Questions About Science and Nature

By: Rachel Ignotofsky

Publisher: New York : Crown Books for Young Readers, 2021
<https://nlb.overdrive.com/media/5572588>



All book covers are the copyright of their respective publishing companies.

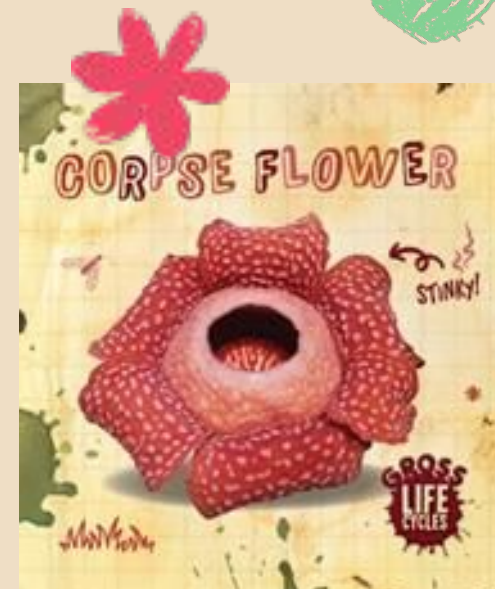
Corpse Flower

By: William Anthony

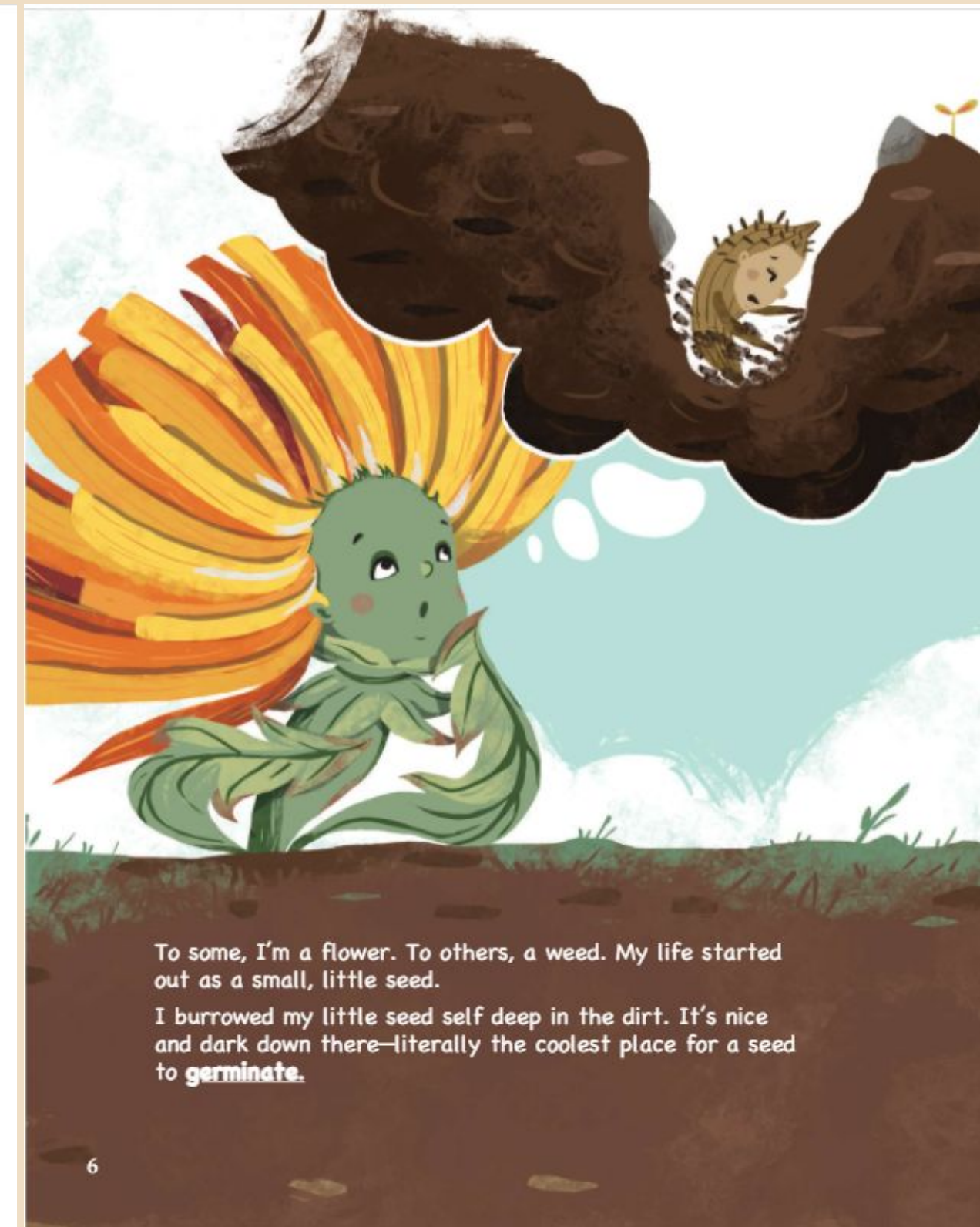
Publisher: New York, NY : Enslow Publishers, 2022

Section: Early Literacy Picture Books / Non-Fiction

Call Number: English 584 ANT



Non-Fiction Books for Plant the Tiny Seed (Life Sciences)



My Life as a Dandelion

By: John Sazaklis

Non-Fiction Books for Catastrophe (Applied Mathematics)

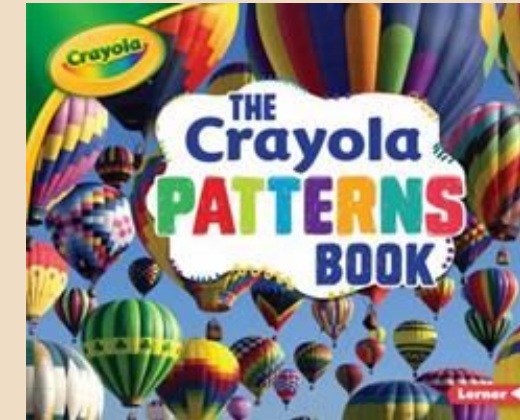
The Crayola Patterns Book

By: Marie C. Schuh

Publisher: Minneapolis : Lerner Publications, [2017]

Section: Early Literacy Picture Books / Non-Fiction

Call Number: English 511.3 SCH



Same and Different

By: Brenda McHale

Publisher: New York, NY : KidHaven Publishing, an imprint of Gareth Stevens

Publishing, 2022

Section: Early Literacy Picture Books / Non-Fiction

Call Number: English 516 MAC



A Quick History of Maths

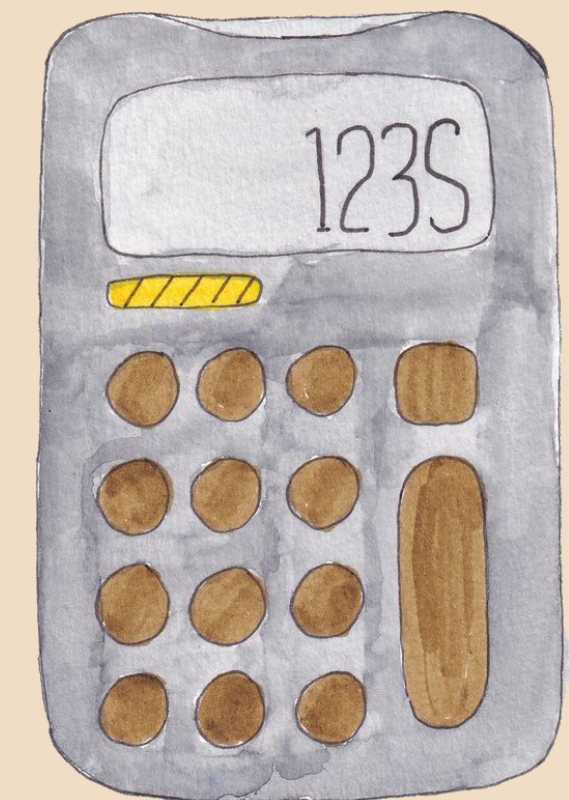
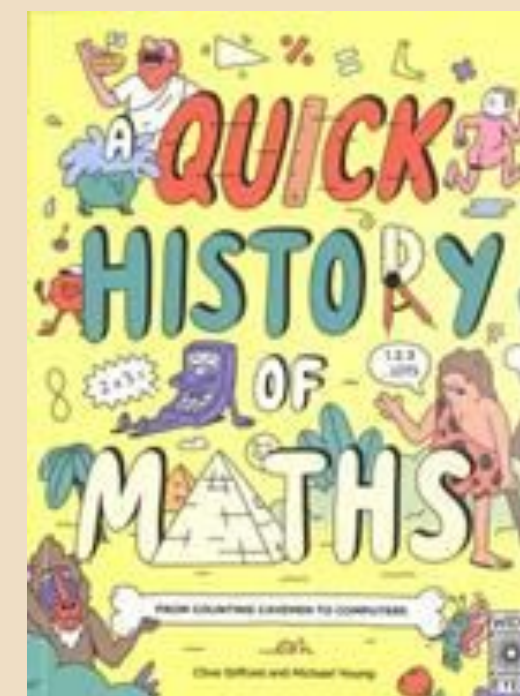
From Counting Cavemen to Big Data

By: Clive Gifford

Publisher: Beverly : Wide Eyed Editions, 2020

Section: Children / Non-Fiction

Call Number: English 510 GIF



All book covers are the copyright of their respective publishing companies.

Non-Fiction Books for Catastrophe (Applied Mathematics)



The Crayola Patterns Book

By: Marie C. Schuh

Non-Fiction Books for Catastrophe (Applied Mathematics)

PEOPLE AND PATTERNS

Some patterns repeat shapes.



Many circles make a polka-dot pattern.

Create your own pattern by repeating shapes. What colors will you use?



The Crayola Patterns Book

By: Marie C. Schuh



Non-Fiction Books for the Tiny Tots!



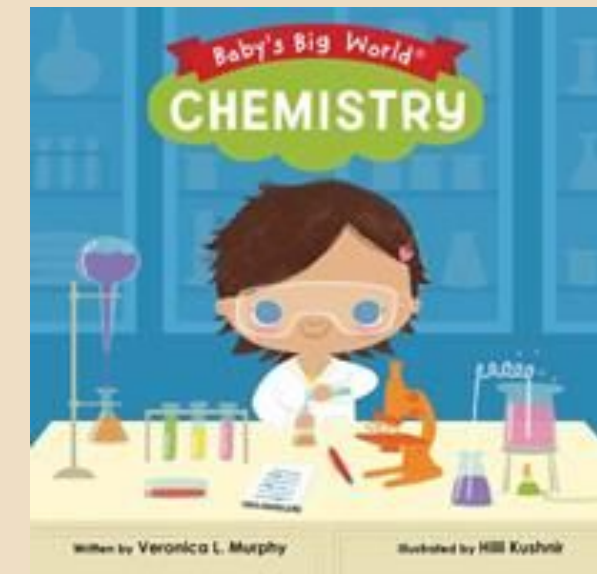
Chemistry

By: Veronica L. Murphy & Hilli Kushnir

Publisher: New York : Starry Forest Books, 2020

Section: Early Literacy Emergent Readers

Call Number: English 540 MUR



ABCs of Engineering

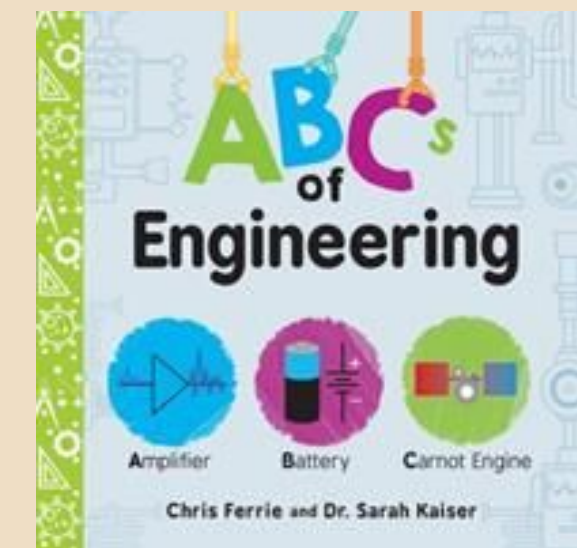
By: Chris Ferrie & Dr. Sarah Kaiser

Publisher: Naperville, Illinois : Sourcebooks Jabberwocky,

[2019]

Section: Early Literacy Emergent Readers

Call Number: English 620 FER



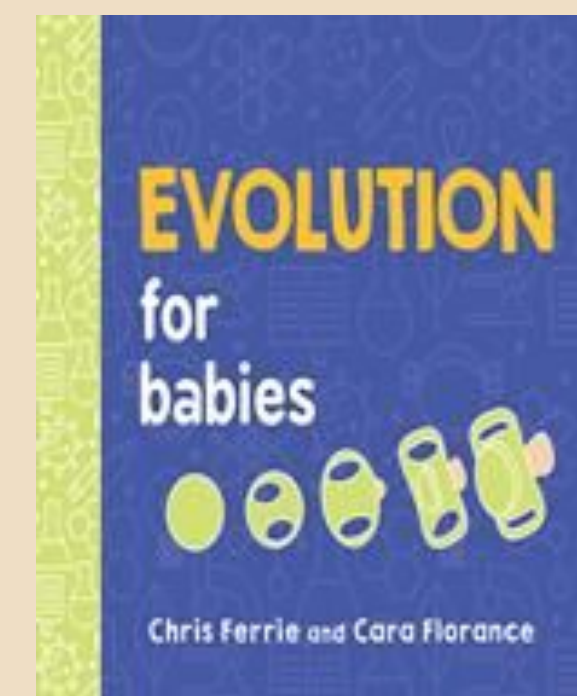
Evolution for Babies

By: Chris Ferrie

Naperville : Sourcebooks Explore, 2020



<https://nlb.overdrive.com/media/4235758>



All book covers are the copyright of their respective publishing companies.

Non-Fiction Books for the Tiny Tots!

The periodic table is like a crayon box.

It is home to all of the elements.

1 H Hydrogen																	2 He Helium														
3 Li Lithium	4 Be Beryllium																	5 B Boron	6 C Carbon	7 N Nitrogen	8 O Oxygen	9 F Fluorine	10 Ne Neon								
11 Na Sodium	12 Mg Magnesium																	13 Al Aluminum	14 Si Silicon	15 P Phosphorus	16 S Sulfur	17 Cl Chlorine	18 Ar Argon								
19 K Potassium	20 Ca Calcium	21 Sc Scandium	22 Ti Titanium	23 V Vanadium	24 Cr Chromium	25 Mn Manganese	26 Fe Iron	27 Co Cobalt	28 Ni Nickel	29 Cu Copper	30 Zn Zinc	31 Ga Gallium	32 Ge Germanium	33 As Arsenic	34 Se Selenium	35 Br Bromine	36 Kr Krypton														
37 Rb Rubidium	38 Sr Strontium	39 Y Yttrium	40 Zr Zirconium	41 Nb Niobium	42 Mo Molybdenum	43 Tc Technetium	44 Ru Ruthenium	45 Rh Rhodium	46 Pd Palladium	47 Ag Silver	48 Cd Cadmium	49 In Indium	50 Sn Tin	51 Sb Antimony	52 Te Tellurium	53 I Iodine	54 Xe Xenon														
55 Cs Cesium	56 Ba Barium	57 La Lanthanum	58 Hf Hafnium	59 Ta Tantalum	60 W Tungsten	61 Re Rhenium	62 Os Osmium	63 Ir Iridium	64 Pt Platinum	65 Au Gold	66 Hg Mercury	67 Tl Thallium	68 Pb Lead	69 Bi Bismuth	70 Po Polonium	71 At Astatine	72 Rn Radon														
87 Fr Francium	88 Ra Radium	89 Ac Actinium	90 Rf Rutherfordium	91 Db Dubnium	92 Sg Seaborgium	93 Bh Bohrium	94 Hs Hassium	95 Mt Meitnerium	96 Ds Darmstadtium	97 Rg Roentgenium	98 Cn Copernicium	99 Nh Nihonium	100 Fl Flerovium	101 Mc Moscovium	102 Lv Livermorium	103 Ts Tennessine	104 Og Oganesson														
																		58 Ce Cerium	59 Pr Praseodymium	60 Nd Neodymium	61 Pm Promethium	62 Sm Samarium	63 Eu Europium	64 Gd Gadolinium	65 Tb Terbium	66 Dy Dysprosium	67 Ho Holmium	68 Er Erbium	69 Tm Thulium	70 Yb Ytterbium	71 Lu Lutetium
																		72 Th Thorium	73 Pa Protactinium	74 U Uranium	75 Np Neptunium	76 Pu Plutonium	77 Am Americium	78 Cm Curium	79 Bk Berkelium	80 Cf Californium	81 Es Einsteinium	82 Fm Fermium	83 Md Mendelevium	84 No Nobelium	85 Lr Lawrencium

Chemistry

By: Veronica L. Murphy & Hilli Kushnir

Non-Fiction Books for the Tiny Tots!



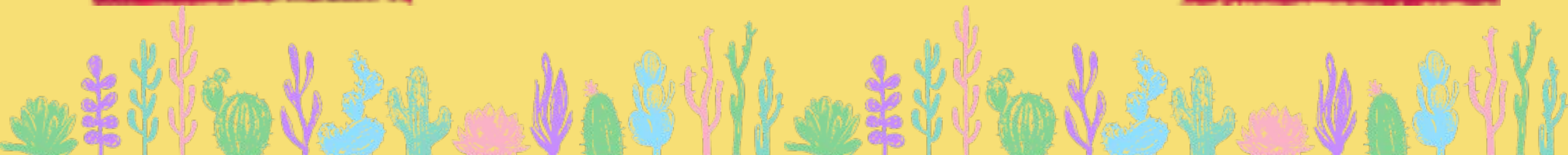
Chemistry

By: Veronica L. Murphy & Hilli Kushnir



KEEP MOVING FORWARD!

Failure and Growth Mindset are Essential in
STEAM





GROWTH MINDSET

Carol Dweck, American psychologist, defines the growth mindset as "the belief that you can develop your talents and abilities through hard work, good strategies, and help from others."
(2016)

A growth mindset "can have a profound effect on students' motivation, enabling them to focus on learning, persist more, learn more, and do better in school." (Dweck, 2016)

Success comes from EFFORT. What matters most in the learning process is the trying, failing and trying again.

Source: Recognizing and Overcoming False Growth Mindset



<https://go.gov.sg/caroldweck>



GROWTH MINDSET

- Important to note: "...Effort is one key ingredient to success. [Carol Dweck] also says strategy, resilience, support and desire are just as important as effort." (Nottingham & Larson, 2019, p. 34)

When failure occurs, look for new strategies: "...Acknowledge when [children] are not learning effectively, and then work...to find new learning strategies." (Dweck, 2016)

Proposed Direction in Learning:

Children - Put in effort, adopt an inquisitive and inquiring mind.

Parent - Provide support, develop strategies to encourage consistent effort as well as instill resilience.

Developing Growth Mindset in STEAM



Great Science Fails

By: Barbara Krasner

Publisher: Minneapolis : Lerner Publications,
[2020]

Section: Early Literacy Picture Books /
Non-Fiction

Call Number: English 509 KRA

All book covers are the copyright of their respective publishing companies.

A non-fiction book that discusses "the all-time biggest failures in science and how some of those flops actually led to great discoveries."

(Synopsis from NLB Catalogue)

This book emphasises failure, the importance of failure and how failure pushes the greatest scientists in history to move forward!

"Science is often a process of trial and error. Failure is a big part of learning and discovering."

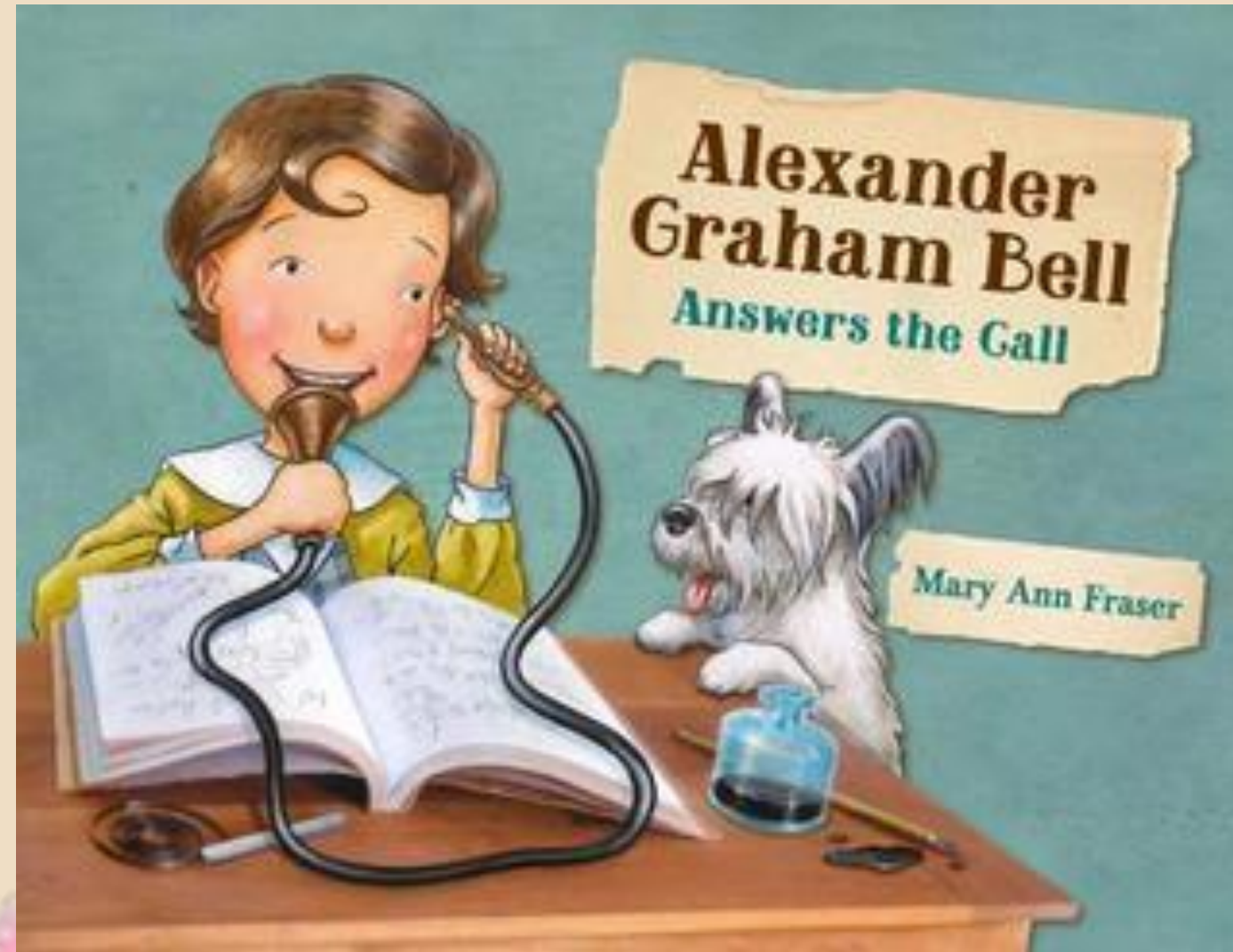
(Krasner, 2020, p. 7)

If we never get things wrong, how are we to be interested in learning the right things?

"Failure is unavoidable" (Krasner, 2020, p. 29)



Failure is Part of the Scientist's Story



Alexander Graham Bell Answers the Call

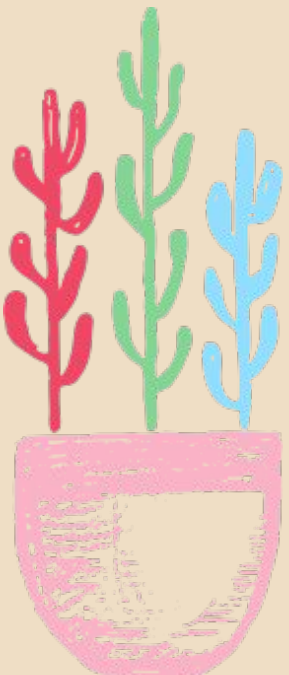
By: Mary Ann Fraser

Publisher: Watertown, MA : Charlesbridge, [2017]

Section: Early Literacy Picture Books / Non-Fiction

Call Number: English 621.385092 FRA

All book covers are the copyright of their respective publishing companies.



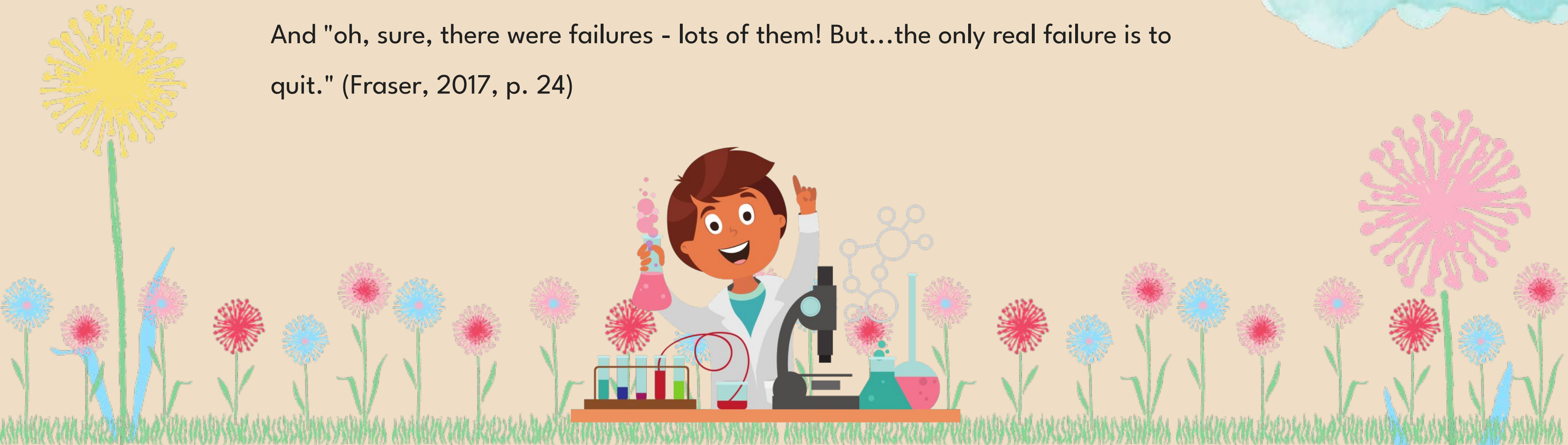
ALEXANDER GRAHAM BELL

Simplified biographies of famous inventors/scientists are a good way to introduce to your child the concepts of:

- Growth mindset
- Experimenting and being curious
- How exploration of their environment can lead to great discoveries

And "oh, sure, there were failures - lots of them! But...the only real failure is to quit." (Fraser, 2017, p. 24)

**Your child can
take on the role
of a scientist
and create their
own story!**



Tips To Developing Growth Mindset

1. A Love for Mistakes

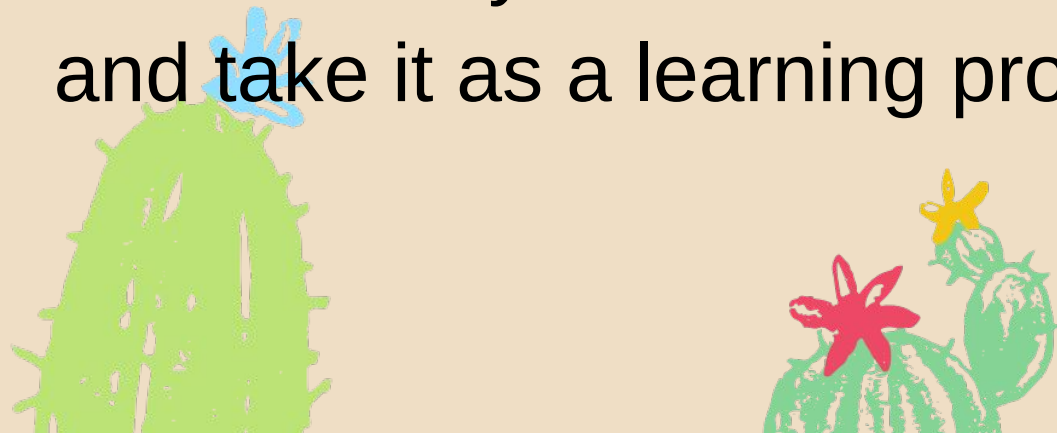
- See failure as a learning opportunity and demonstrates how changes can be made in the future to get better

2. Using "Yet"

- Practise adding the word "yet" to challenges or problems faced, eg: "I haven't figured out how to do this yet."

3. Start with Yourself

- As an adult, you can demonstrate how you react to mistakes so that your child can model after you. Don't be afraid of embarking on topics that you are not familiar with and take it as a learning process together with your child.



Citations



- Fraser, Mary Ann (2017) Alexander Graham Bell Answers the Call. Watertown, MA : Charlesbridge, [2017] 9 March 2022
- Krasner, Barbara (2020) Great Science Fails. Thousand Oaks, Minneapolis : Lerner Publications, [2020] 11 March 2022



Citations

- Baumgart, Nichole A. Kroll, Linda R. (2018) Steam Concepts for Infants and Toddlers. LaVergne : Redleaf Press, 2018. 9 March 2022
- Nottingham, James. Larsson, Bosse. (2019) Challenging Mindset: Why a Growth Mindset Makes a Difference in Learning - and What to Do When it Doesn't. Thousand Oaks, California : Corwin, a SAGE Publishing Company, [2019]. 11 March 2022

Citations



- Hadani, H. S., Regalla, L., Kennedy, K., Kauffman, J., Jaeger, G., Jaeger, G., Foushee, R., Eisenmann, & Rood, E. (2018). The roots of stem success.

<https://bayareadiscoverymuseum.org/resources/publications>. Retrieved April 28, 2022, from

https://37726n2dobnw25rhl01gna4e-wpengine.netdna-ssl.com/wp-content/uploads/2020/04/Roots_of_STEM_Paper_WORKING_v2.pdf

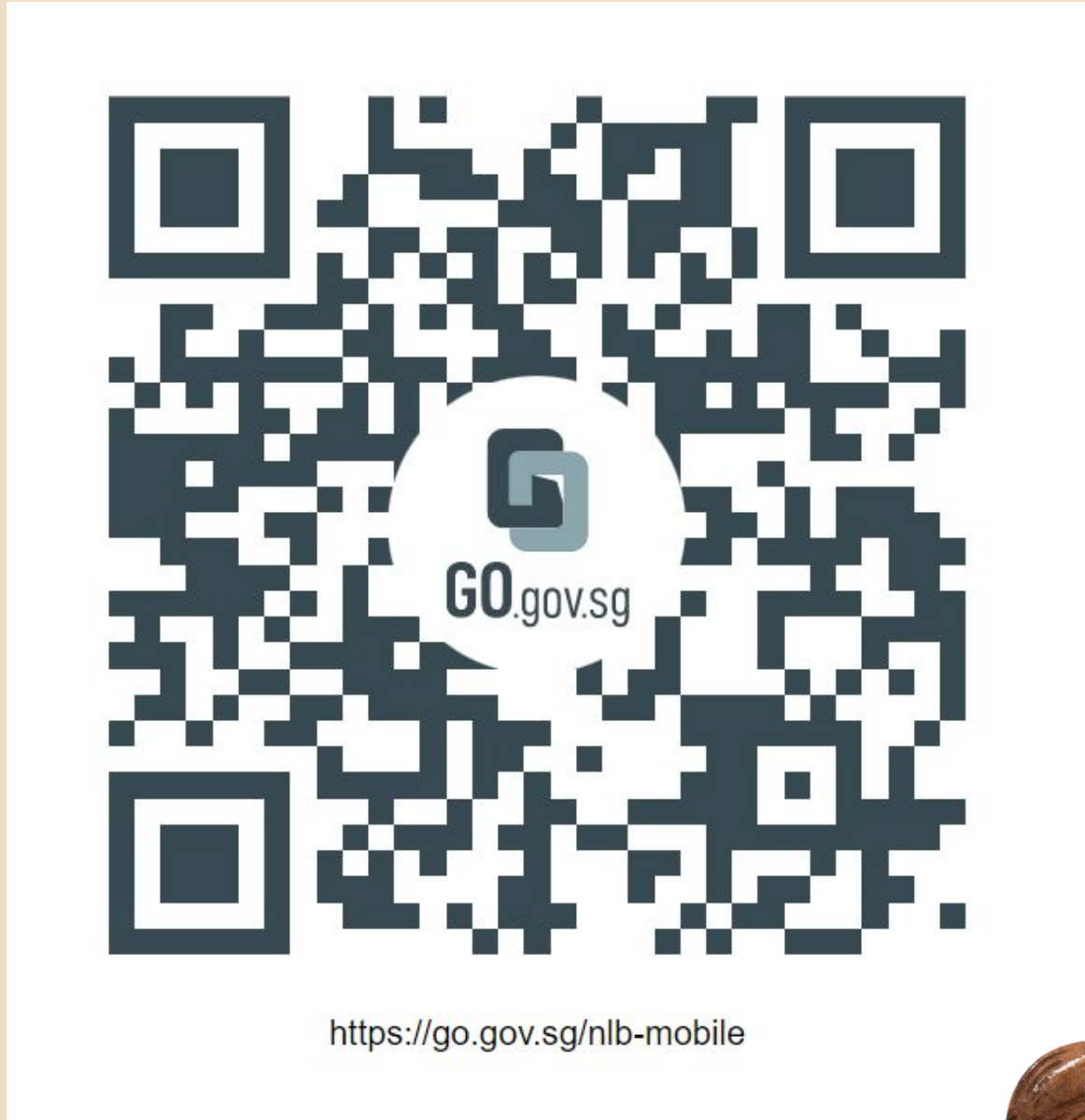
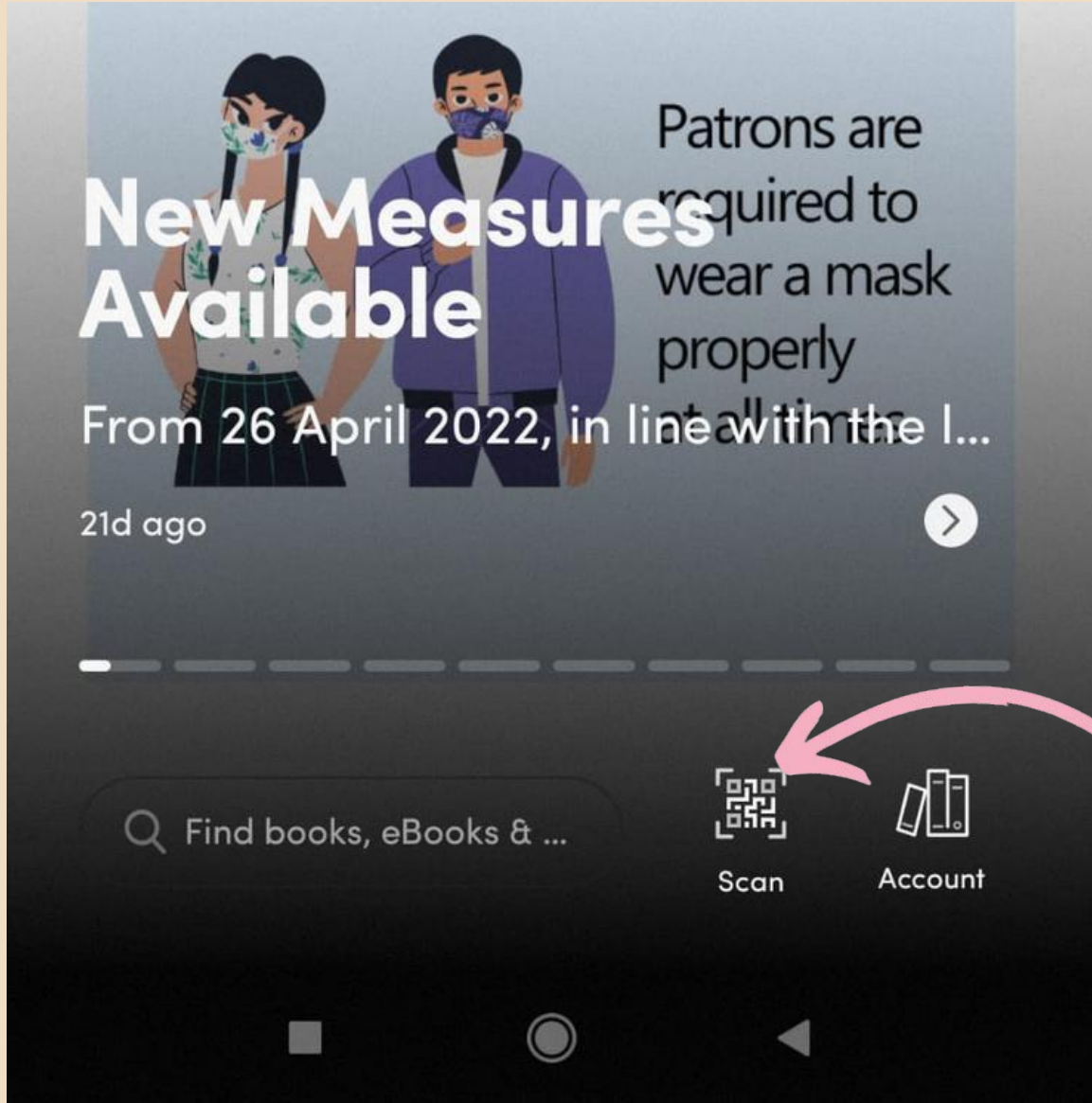
- Dweck, C. (2016, January 11). Recognizing and overcoming false growth mindset. Edutopia. Retrieved April 28, 2022, from

<https://www.edutopia.org/blog/recognizing-overcoming-false-growth-mindset-carol-dweck>

Borrow our books!



Download our NLB Mobile App and borrow our books!



Do check
our programmes!

NLB's Early READ Science Programmes

<https://go.gov.sg/earlyread-science-programmes>



Subscribe
with us!

NLB's Early READ EDM

<https://go.gov.sg/earlyread-subscribe>



<https://go.gov.sg/earlyread-subscribe>

A BOOK A DAY READING PROGRAMME



Read a book a day with your child and stand to win a collection of children's books in a lucky draw! Terms and conditions apply. For participants aged 0 – 6 years old upon registration only.



<https://go.gov.sg/abookaday>

READ WITH ME: A BOOK A DAY READING CAMPAIGN

From April to June 2022, upload as many Instagram posts of fun storytelling sessions that you have with your child using the hashtag #nlbabookaday and stand to win attractive prizes.



<https://go.gov.sg/abad-readwithme>



START READING FROM THE CRADLE!



**Raising Readers
for Life**

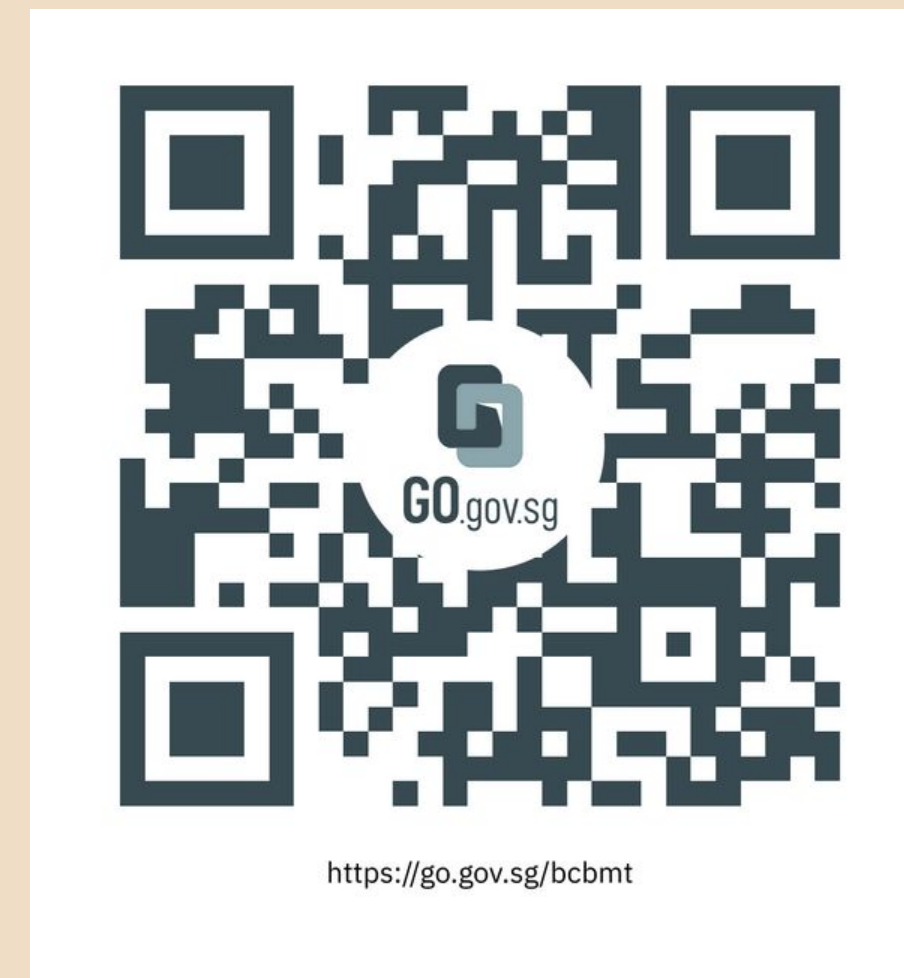
**IS YOUR BABY A
LIBRARY MEMBER YET?**

Sign your baby up as a library member
and collect a Baby Gift Pack at the library!

WHAT IS IN THE BABY GIFT PACK?

- One English Book
- One Chinese *or* Malay *or* Tamil Book
- Rhymes & Songs Sing Along (Babies Edition)
- Tummy Time Animals!
- A Book A Day Reading Journal

Bring your child's birth certificate and a parent's NRIC to apply for a library membership.*



<https://go.gov.sg/bcbmt>

<https://account.nlb.gov.sg>



Thank you!



<https://go.gov.sg/progsurvey>

go.gov.sg/progsurvey



Ask us!

