



*Supporting early computational thinking
across home and library settings*



TODay's Speakers



Dr. Sherri Killins Stewart
BUILD Initiative



Mary Haggerty
GBH Education

BUILD Vision & Mission

The BUILD Initiative

Envisions a time when all children reach their full potential; race, place, and income are no longer predictors of outcomes.



BUILD is a **national effort** that advances state work on behalf of young children (prenatal-five), their families, and communities.

BUILD partners with **early childhood state leaders** focused on early learning, health, mental health, and nutrition, child welfare, and economic supports to create the **policies, infrastructure and cross-sector connections necessary for quality and equity.**



GBH enriches people's lives through programs and services that educate, inspire, and entertain, fostering citizenship and culture, the joy of learning, and the power of diverse perspectives.

Public media leader for 70+ years

Largest contributor to PBS



AMERICAN
EXPERIENCE

MASTERPIECE

NOVA

FRONTLINE

American Archive
OF PUBLIC BROADCASTING

Museums and Libraries

- The to amplify the strength of organizations serving children and families by forming coalitions that ensure children in their regions, regardless of socio-economic or linguistic backgrounds, have the skills needed to enter school prepared for success.
- Support statewide partnerships that help to forge connections and strengthen existing networks of museums, libraries, community organizations, and early care and education provider networks; build professional capacity for implementing high-quality informal learning experiences for children across the state not currently fully served; and foster family engagement and learning. especially targeting underserved families.

**BUILDing Supportive Communities
with Libraries, Museums,
and Early Childhood Systems**



*A Toolkit for Collaborative Efforts
to Improve Outcomes for Young Children
and Their Families*



Partnerships BUILD Initiative and GBH

In Mississippi:

- Mississippi Public Broadcasting
- Mississippi Library Commission
- Rotary Clubs of MS
- Public libraries throughout the state

In Maryland:

- Maryland Public Television
- Maryland Department of Education
- Maryland Department of Education's Judy Centers





Work
It Out
Wombats!™

“WOrk It Out @ Your Library”

- Funded by a grant from the National Science Foundation
- Create a motivating pathway through CT resources in a way that makes it easy and fun for rural families to explore CT
- Create a new library model that leverages librarians' enthusiasm to support family learning
- Generate and share research to inform the field



The Library Working Group

- Public Library Association (PLA), Libraries Ready to Code, Association of Rural and Small Libraries (ARSL), WebJunction, Mississippi Public Broadcasting (MPB), and practicing librarians and library workers.
- Met throughout the pandemic to iteratively develop this family outreach model for libraries.
- Ideal for all libraries that serve families with young children.



Poll

1. How much did you know about computational thinking before this webinar? (Scale of 1 [Nothing] to 10 [A lot])
2. Does investing in computational skills support the future career choices of children and youth? (Yes, No, or Unsure)
3. Do you have a relationship with your local or state librarian? (Yes or No)

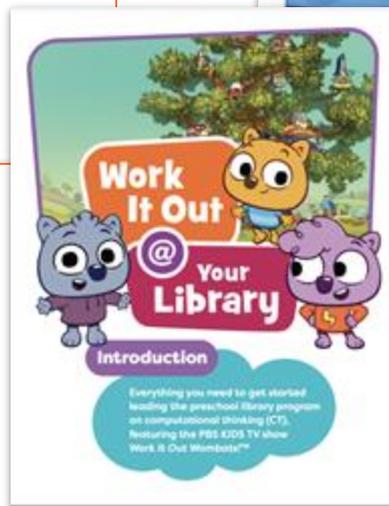
Work it out @ Your Library

- Free collection of resources available on PBS LearningMedia
- Includes library facilitator guides, presentation decks, student handouts, take-home family guides, tons of videos, and more!

pbslearningmedia.org/collection/work-it-out-your-library/



PROGRAM OVERVIEW



	Work It Out @ Your Library	Work It Out @ Home
Week 1	<p>Introductory Session (1 hour)</p> <p>Families learn about the Wombats' series and characters, get acquainted with CT, and practice using the Work It Out Wombats' Family App, which contains animated stories and songs, hands-on activities, and an interactive music video feature.</p>	<p>More Activities! (1+ hours)</p> <p>Equipped with the Work It Out Wombats' Family App and the Work It Out @ Home Family Guide, families watch Wombats' stories and songs and do more activities at home. They mark the activities they did on the Wombats' Activity Tracker.</p>
Week 2	<p>Story Time Session (30-45 min.)</p> <p>Families listen to two storybooks related to the CT skill they've been working on. They'll take a break between stories to dance with Wombats' puppets and for free play. They'll visit the CT Corner (which features Wombats' resources and take-home handouts) and check in with the librarian leading the program.</p>	<p>More Activities! (1+ hours)</p> <p>Families continue to watch Wombats' animated stories and songs and do more activities, preparing to share what they did at the Final Share and Celebrate library session.</p>
Week 3	<p>Share and Celebrate Session (1 hour)</p> <p>Families return to share what they did at home and talk about their CT experiences. Then they'll do another CT activity together, receive a certificate, and finish with a celebration!</p>	

Create, test, improve!

Unit 1: Create, Test, Improve | Work It Out @ Your Library

Media Gallery Grades PK-K Collection Work It Out @ Your Library



Unit 1

Create. Test. Improve!

Resource 1 of 6

Unit 1 Library Guide: Create, Test, Improve!

This three-week unit focuses on the design process, or as the Wombats say, Create, Test, Improve! The Guide includes instructions for leading each of three sessions. (If you haven't already, read the Work It Out @ Your Library Introduction first.)

Download



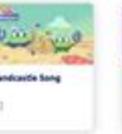
Unit 1 Library Guide: Create, Test, Improve!



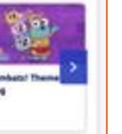
What is Computational Thinking?



Design Process



Sandcastle Song



Wombats! Theme Song

About Standards

Introduce preschoolers and their families to the design process, or as the Wombats say, Create, Test, Improve! This resource includes a Library Guide and slideshows for leading the three library sessions, a Work It Out @ Home Family Guide for families, a Recommended Booklist of stories related to CT, links to Wombats' videos, and more! (If you haven't already, read the Work It Out @ Your Library Introduction first.)



Permitted use: Stream, Download and Share

Support Materials for Teachers

USING THIS RESOURCE

- Introductory Slideshow | Unit 1
- Share and Celebrate Slideshow | Unit 1
- Work It Out @ Home Family Guide | Unit 1
- Recommended Booklist | Unit 1



Step it out!

Unit 2: Step It Out! | Work It Out @ Your Library

Media Gallery Grades: Pre-K-K Collection: Work It Out @ Your Library



Resource 1 of 6
Unit 2 Library Guide: Step It Out!
This three-week unit focuses on sequencing, or as the Wombats say, Step It Out! The Guide includes instructions for leading each of three sessions. (If you haven't already, read the Work It Out @ Your Library Introduction first.)

Download



Unit 2 Library Guide: Step It Out!



What Is Computational...



Sequences and Algorithms



The Wombat Wiggle Song



Wombats! Theme Song

About Standards

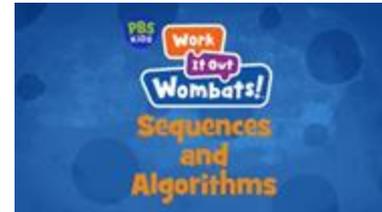
Introduce preschoolers and their families to the computational thinking (CT) skill of sequencing, or as the Wombats say, Step It Out! This resource includes a Library Guide and slideshows for leading the three library sessions, a Work It Out @ Home Family Guide for families, a Recommended Booklist of stories related to CT, links to Wombats! videos, and more! (If you haven't already, read the Work It Out @ Your Library Introduction first.)



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Support Materials for Teachers

USING THIS RESOURCE
[Introductory Slideshow | Unit 2](#)
[Share and Celebrate Slideshow | Unit 2](#)
[Work It Out @ Home Family Guide | Unit 2](#)
[Recommended Booklist | Unit 2](#)



Find what matters!

Unit 3: Find What Matters! | Work It Out @ Your Library

Media Gallery | Grade 1, Unit 3 | Collection: Work It Out @ Your Library

Resource 1 of 6

Unit 3 Library Guide: Find What Matters!

This three-week unit focuses on abstraction and representation, or as the Wombats say, Find What Matters! The Guide includes instructions for leading each of three lessons. If you haven't already, read the Work It Out @ Your Library Introduction first.

Download

About Standards

Introduce preschoolers and their families to the computational thinking skill of abstraction and representation, or as the Wombats say, Find What Matters! This resource includes a Library Guide and slideshows for leading the three library sessions, a Work It Out @ Home Family Guide for families, a recommended booklist of stories related to CT, links to Wombats! Videos, and more! (If you haven't already, read the Work It Out @ Your Library Introduction first).

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Accessibility: Public, Restricted

Support Materials for Teachers

Using This Resource

[Introductory Slideshow | Unit 3](#)

[Share and Celebrate Slideshow | Unit 3](#)

[Work It Out @ Home Family Guide | Unit 3](#)

[Recommended Booklist | Unit 3](#)

Recommended Booklist

When a lot of books are available in the computerized library and all of them are good, it's hard to choose just one. We've chosen a few of the best ones for you to read. These are the books that we think you should read. We've chosen them for you because they are so good. We've chosen them for you because they are so good. We've chosen them for you because they are so good.

The Wombats

The Wombats

The Wombats

The Wombats

The Wombats

Dot

Work It Out Wombats!

Welcome Families!

Work It Out Wombats!

Welcome back families!
It's time to share!

Click here for the recommended Home Family Guide

Break it down!

Unit 4: Break It Down! | Work It Out @ Your Library

Media Gallery Grades: Pres K Collection: Work It Out @ Your Library



Resource 1 of 7

Unit 4 Library Guide: Break It Down!

This three-week unit focuses on problem decomposition, or as the Wombats say, *break it down!* The Guide includes instructions for leading each of three sessions. (If you haven't already, read the *Work It Out @ Your Library* Introduction first).

Download



Unit 4 Library Guide: Break It...



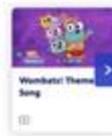
What is Computational...



Problem Decomposition



Break It Down Song



Wombats! Theme Song

About Standards

Introduce preschoolers and their families to the computational thinking (CT) skill of problem decomposition, or as the Wombats say, *break it down!* This resource includes a Library Guide and slideshow for leading the three library sessions, a *Work It Out @ Home* Family Guide for families, a recommended booklist of stories related to CT, links to Wombats! videos, and more! (If you haven't already, read the *Work It Out @ Your Library* Introduction first).



Permitted use:
Stream, Download and Share

Accessibility:
Caption, Transcribe

Support Materials for Teachers

USING THIS RESOURCE

[Introductory Slideshow | Unit 4](#)

[Share and Celebrate Slideshow | Unit 4](#)

[Work It Out @ Home Family Guide | Unit 4](#)

[Recommended Booklist | Unit 4](#)



Poll

Do you see alignment with early learning standards in your state? (Yes, No, or Unsure)

oVERVIEW FOR FAMILIES

Overview for Families: What Is Work It Out @ Your Library?

Media Gallery Grades: PreK-K Collection: Work It Out @ Your Library



Resource 1 of 4

Overview for Families (Video)

Have fun exploring computational thinking (CT) with your children as a part of the Work It Out @ Your Library program. Watch animated videos, do hands-on activities, listen to story times, and play with the Work It Out Wombats! Family App.

Transcript



Overview for Families (Video)



What is CT? (Video)



Children's CT (Video)



Wombats! Family App (Video)



CT Corner toolkit



Treeborhood Standee



Tabletop Signs



Activity & Coloring Sheets



Resources for Early Learning

[EDUCATORS](#)[PARENTS](#)[CHILDREN](#)[ABOUT](#)[SEARCH](#)

WELCOME EDUCATORS & PARENTS

This site provides exciting, engaging media-rich learning opportunities for educators, parents, and caregivers of children. From detailed lesson plans to simple, everyday activities, you will find everything you need to help your children succeed.

EDUCATORS



Explore the MA Early Learning Curriculum for children 3—5 or fun, low-cost activities for children birth—3. Watch video-based trainings to help you use best practices in your setting.

PARENTS



Make each day a learning adventure for your child with these quick and easy ideas, useful tips, and practical, how-to parenting videos.

CHILDREN



Find age-appropriate videos, interactive games, and other media for children 3—5.

ABOUT



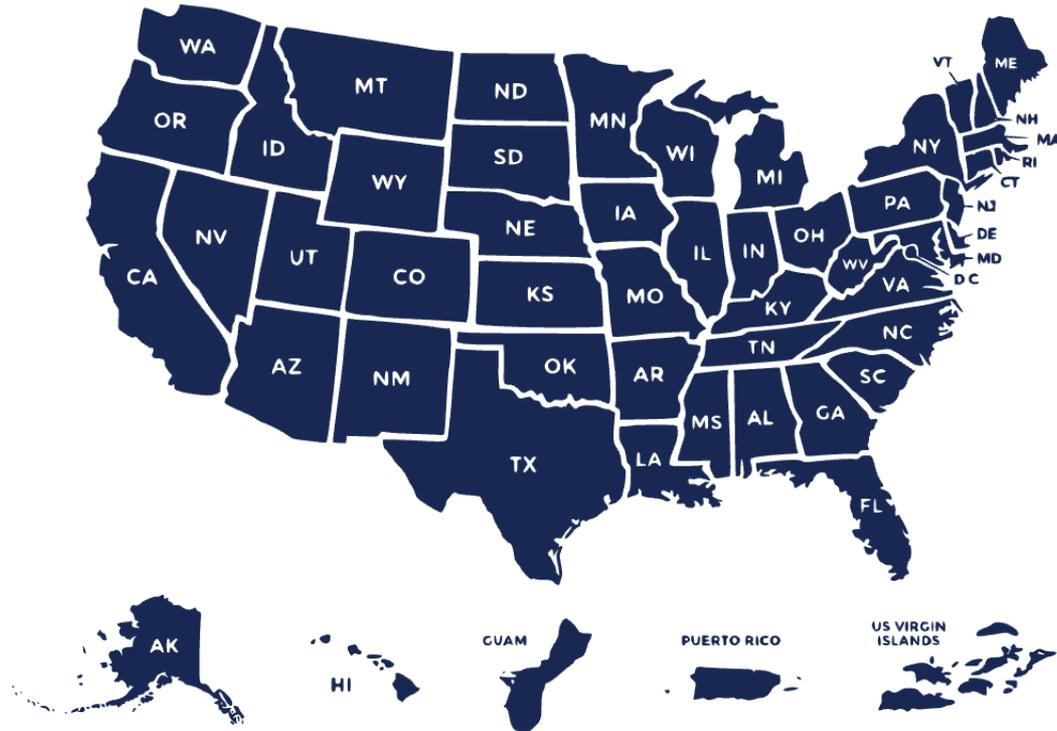
Tour the Resources for Early Learning site and preview the content.

- Comprehensive early childhood digital library
- More than 2,500 free multimedia tools for teaching and learning
- 9-unit, 30-week preschool curriculum
- 7-unit infant/toddler curriculum
- 17 video-centered training modules for educators of children birth-5 that explore essential best practices
- 10 parent strategy videos
- Playlists for children



Find Your Local PTV Station

Use The Interactive Map Below To Find The Public Television Stations In Your State.



<https://apts.org/stations/find-your-public-tv-station>

Reflection Poll

1. Would you like to have more information? (Yes, No, or Unsure)
2. Would you like to have a webinar for your state or local library on “Work It Out @ Your Library”? (Yes, No, or Unsure)
3. Would you like to have a webinar of public media resources for early learning? (Yes, No, or Unsure)
4. Would you like assistance with creating a partnership with your local or state library? (Yes, No, or Unsure)

Feedback

- Are you interested in a CT Corner toolkit? Up to 50 will be given away to communities who want to advance “Work it Out Wombats!”
- Up to 50 will be drawn from those who complete the evaluation.

Evaluation QR Code



questions?



Contact

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