## **Too Small to Fail**

A Joint Initiative of the Clinton Foundation and The Opportunity Institute





### Goals

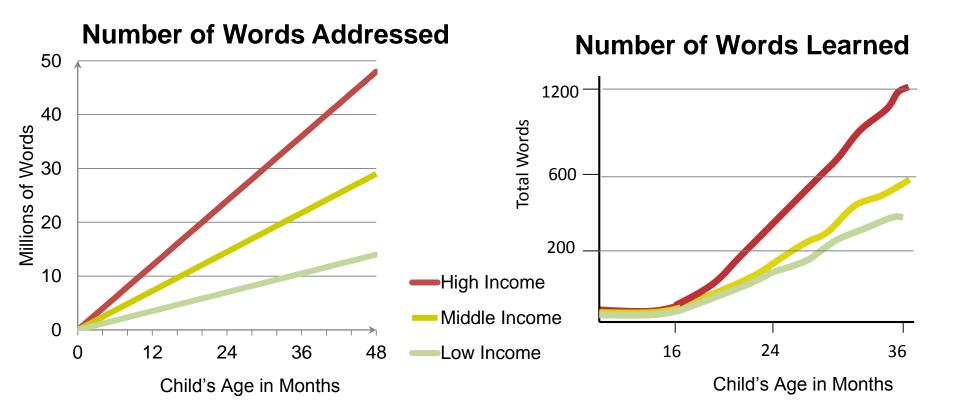
Increase awareness and spark positive change in parents and communities to boost early brain and language development in children ages 0-5.

- For parents and young children, make small moments big.
- For communities, empower people and places to make these moments happen more often.





### Research: A Strong Base





## Research: The Opportunity

### Neuroplasticity

At birth 6 years old 14 years old





Drawing supplied by H.T. Chugani M.D., Chief, Division of Pediatric Neurology, Children's Hospital of Michigan

# Talking is Teaching: Talk, Read, Sing Campaign Approach

### Air Game

- Hollywood
- Univision
- National partnerships
- National media

### **Ground Game/Cities Strategy**

- Trusted messengers in community touch points
- Environmental prompts
  & local paid media
- Tools to facilitate change





## Ground Game/Cities Strategy

Our campaign's <u>3 components</u> to motivate behavior change:

- 1. Trusted messengers in community touch points
- 2. Environmental prompts & paid media
- 3. Tools to facilitate change





## **Trusted Messengers**

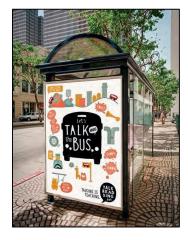
- Pediatricians & nurses
- Faith leaders
- Child care providers
- Early educators
- Home visitors
- Librarians







### **Environmental Prompts**



Bus shelters



Laundromats





Playgrounds

**Grocery Stores** 



### **Tools to Facilitate Change**



Tote Bags



**Baby Blankets** 



Books



Sesame Guide



Federal Tip Sheets



**Text Reminders** 



## **Expanding to Early STEM**



### Why is Early Math Important?

Children's math knowledge at K-entry predicts
 5<sup>th</sup> grade achievement in math and reading <sup>1</sup>

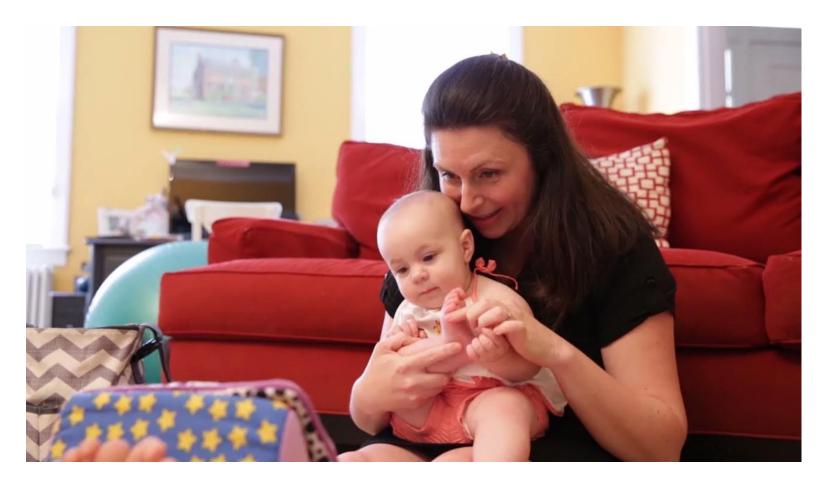
 Math knowledge gap at kindergarten entry for children from lower SES families<sup>2</sup>

1. Claessens, Duncan, & Engel, 2009; Duncan et al., 2007

2. Denton & West, 2002



### What is Early Math?









## What works?

Evidence from Early Math Intervention Studies:

- Play, exploration, hands-on
- Emphasis on math-related language



Clements & Sarama, 2011; Frye et al., 2013; Greenes et al., 2004; Griffin, 2004; NAEYC & NCTM, 2002; Ramani & Siegler, 2011; Sarama & Clements, 2004; Starkey et al., 2004



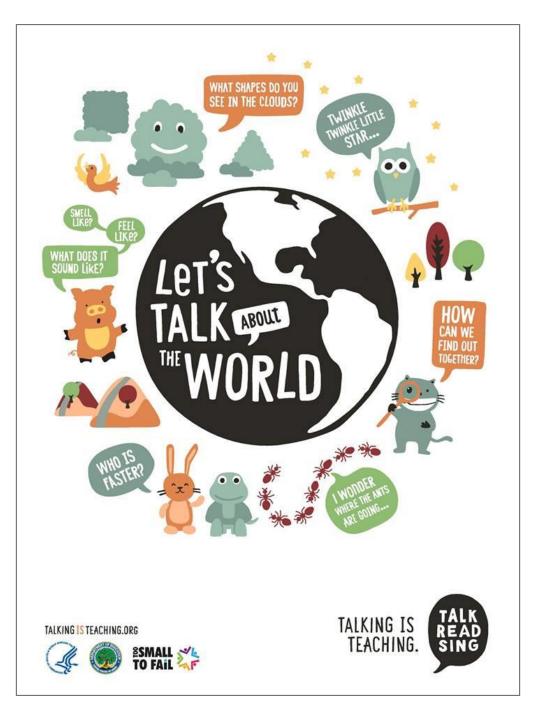
## Let's Talk, Read and Sing about STEM

- Partnership between TSTF, HHS & ED
- Concrete tips for families and early educators of children 0-5
- Poster with creative prompts
- Available in English and Spanish



#### Find these and more at http://toosmall.org/community/resources

SMALL



# LET'S TALK ABOULD STEM

### LET'S OBSERVE THE WORLD!

EVERYWHERE YOU GO, TALK ABOUT WHAT YOU SEE AND DESCRIBE WHAT YOUR BABY IS LOOKING AT OR POINTING TO: "LOOK AT THAT BIG, BLUE TRUCK! HOW MANY WHEELS DOES IT HAVE ALL TOGETHER? 1, 2, 3, 4 WHEELS."



# LET'S TALK ABOULD STEM

ENJOY A SHAPE SNACK.

OFFER A RECTANGLE CRACKER. CUT A PIECE OF CHEESE INTO A TRIANGLE. TALK ABOUT AND TRACE EACH SHAPE WITH YOUR FINGER BEFORE YOU EAT IT.



## LET'S TALK ABOUT STEM

DURING BATH TIME, PLAY FILL AND DUMP WITH A CUP: IT TEACHES YOUR CHILD ABOUT MEASUREMENT CONCEPTS LIKE FULL AND EMPTY.

**#LET'STALKMATH** 



# LET'S TALK ABOULD STEM

### **USE ALL YOUR SENSES**

AT THE GROCERY STORE, DISCOVER THE SMELL, FEEL AND TASTE OF DIFFERENT ITEMS WITH YOUR CHILD. HOLD AN ORANGE AND SAY, "WHAT DOES AN ORANGE LOOK LIKE? FEEL LIKE? IT'S ROUND AND SMOOTH."

...



## **Early Literacy & STEM in Action**



### Dr. Dayna Long, M.D.



Dr. Dayna Long is a pediatrician at the University of California San Francisco Benioff Children's Hospital Oakland (BCHO). Her main clinical work is in primary care and asthma clinic. Dr. Long is also:

- BCHO Spokeswoman for the *Too Small to Fail's* Talking is Teaching campaign.
- Adviser for the White House Bridging the Word Gap- Incentive Prize challenge and the Bridging the Word Gap Research Network.
- Medical Director at the Center for Community Health and Engagement (CCHE), which provides leadership in implementing a platform for population and preventative health care for BCHO patients.
- Co-Founder and Medical Director of the Family Information and Navigation Desk (FIND), which addresses the social and environmental factors that impact health outcomes by connecting families with community-based resources that satisfy unmet basic needs, such as food insecurity and housing.
- Site Principal Investigator for the National Institute of Health (NIH) funded AsthmaNet trials.



### UCSF Benioff Children's Hospital Oakland

#### **Early Literacy**

- Serves 0-2 year olds
- Share literacy messages & tools

#### **Early Math**

- Serves 2-5 year olds
- Share math messages & tools

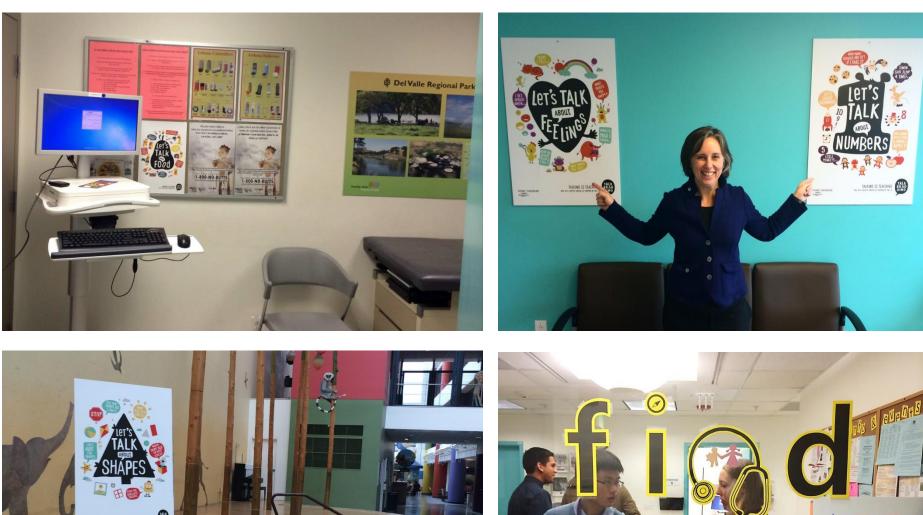
#### **Hospital-wide**

• Communications & events













## Early Math Talking Points

- You probably naturally talk to your child throughout the day.
- It might be surprising, but you can help your child learn early math skills, just by talking to them every day.
- You are helping your child every time you **count out loud** or look for **shapes**. You can "talk math" during your usual routine.

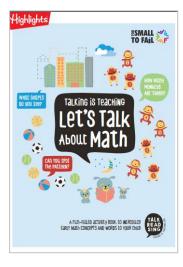
- It's true that children who hear their families talk about math will do better in math AND reading when they reach elementary school.
- Talk, read and sing with your child every day in the language you are most comfortable using.
- The **bond** you form from talking together can help with hard behavior too! It's fun and easy to do together.

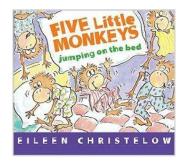




### Early Math Tools







**Toddler T-shirts** 

### **Highlights Guide**

Books







### **TRUSTED MESSENGERS:**

Have we magnified attention? Have we motivated action?

**61% learned something new** from the pediatrician

65% reported that they would act differently based on the information

**96% remembered** the doctor talking about the importance of talking, reading and singing to children, weeks later

#### What did you learn?

The relationship between talking, reading and singing and brain development

Babies are learning "more than I knew"





### **Voices of Oakland parents**

"The book you gave us was the first book she has ever got. She is getting smarter; we go out and buy her more books now."

"I have always talked, read and sung to my kids but I guess having the tools to remind me what to do is great. Makes those things habits and not after thoughts."

### "They laugh a lot when I sing."

"He loves to sing. We do it together. I sing to him and he sings back."

"Dad reads at night and my child says 'la la la la,' which means dad should sing."

"She doesn't quite talk but she speaks to me in the way she can."

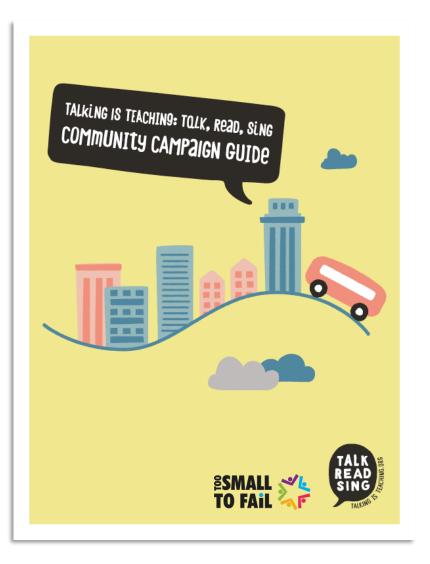


UCSF Philip R. Lee Center for Health Policy Studies preliminary findings from evaluation at UCSF Benioff Children's Hospital Oakland.

## Lessons Learned & Next Steps



### Lessons Learned



- Not "one-size fits all" approach
- Intentionally integrated into existing efforts
- Intended to enhance, not duplicate, existing efforts



### **Questions for Discussion**

- What kind of family activities do you currently offer?
- What do you think the barriers to doing these activities would be for families?
- Are parents already engaging in these activities?





## Call to Action: What You Can Do

- Create buy-in from your leadership and staff
- Host Talking is Teaching trainings for your fellow staff
- Integrate messages and tools into your work with families
- Display campaign posters in your agency
- Reinforce campaign messages on social media
- Partner with other agencies to reach more parents



