

New Research on Enrollment, Workforce, Measurement, & Outcomes

What does it
mean for you?

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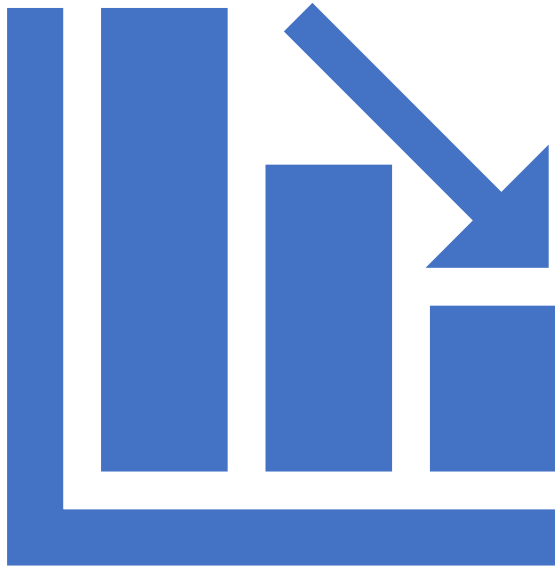


Today's Agenda

1. ECE Enrollment
2. ECE Workforce
3. Newer Measures
4. Outcomes



Why has Enrollment in Pre-K Declined?

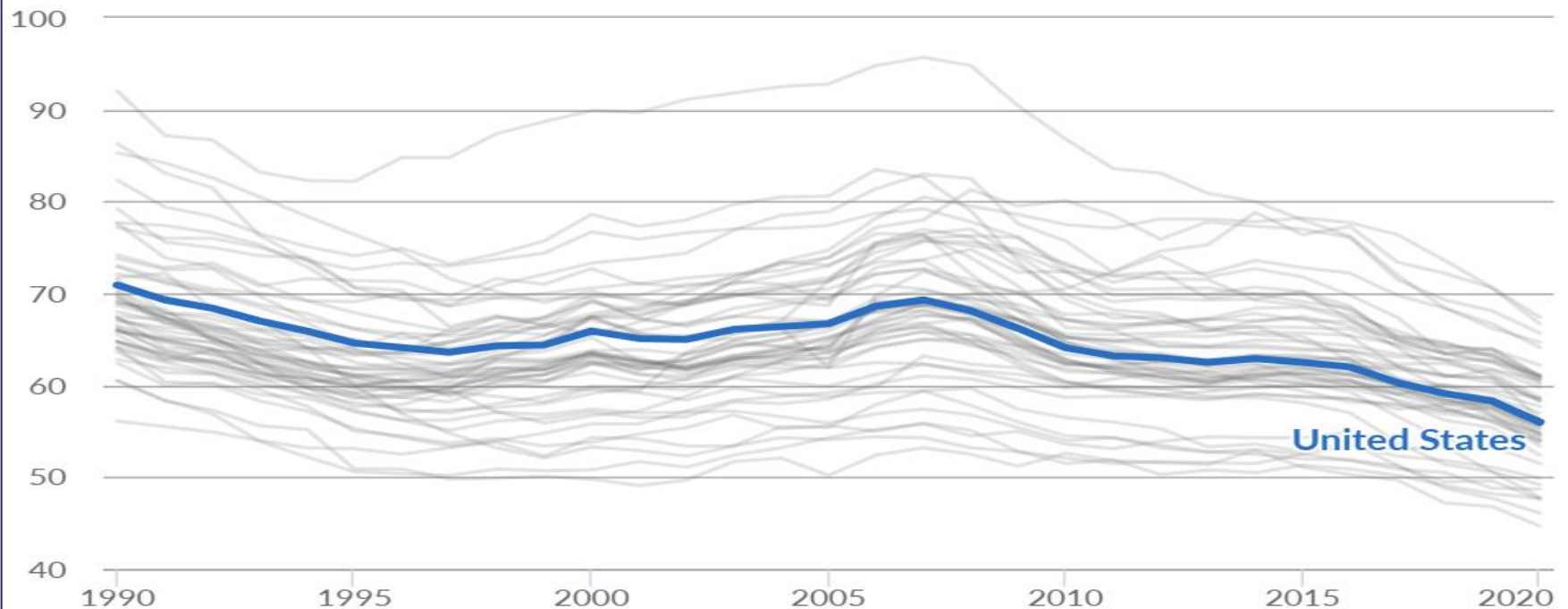


- LONG-TERM DEMOGRAPHIC TRENDS
- PANDEMIC-RELATED CHANGES
 - SHORT TERM DEMOGRAPHIC TRENDS
 - CHANGES IN IMMIGRATION
 - CHANGES IN ENROLLMENT PATTERNS

Long-term Fertility Rate Decreases

General Fertility Rates Decline Across States

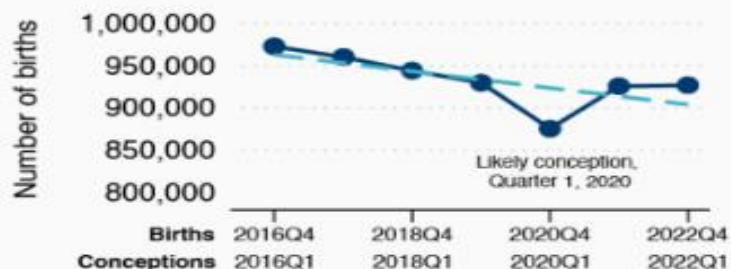
✓ The United States recorded a rate of 56 births per 1,000 women in 2020



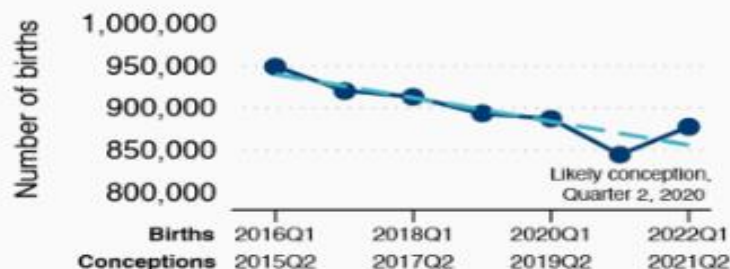
Pandemic-Related Decline in Birth Rates

Births continue long-term decline

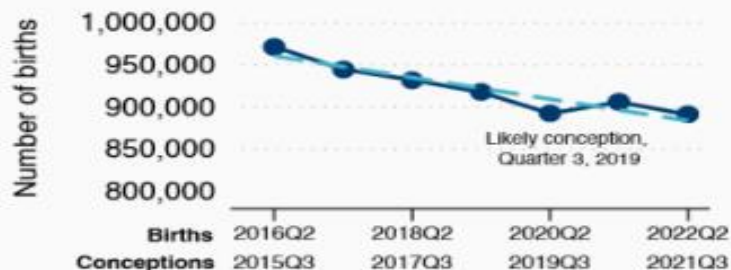
Conceptions in quarter 1, births in quarter 4



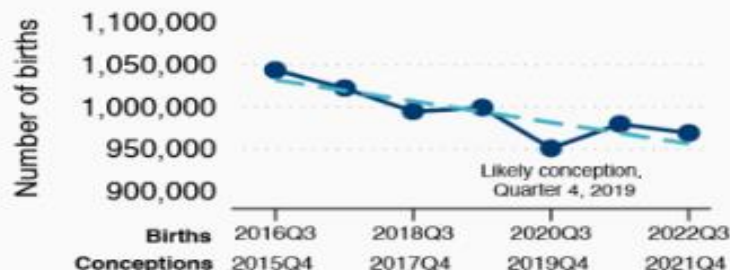
Conceptions in quarter 2, births in quarter 1



Conceptions in quarter 3, births in quarter 2



Conceptions in quarter 4, births in quarter 3



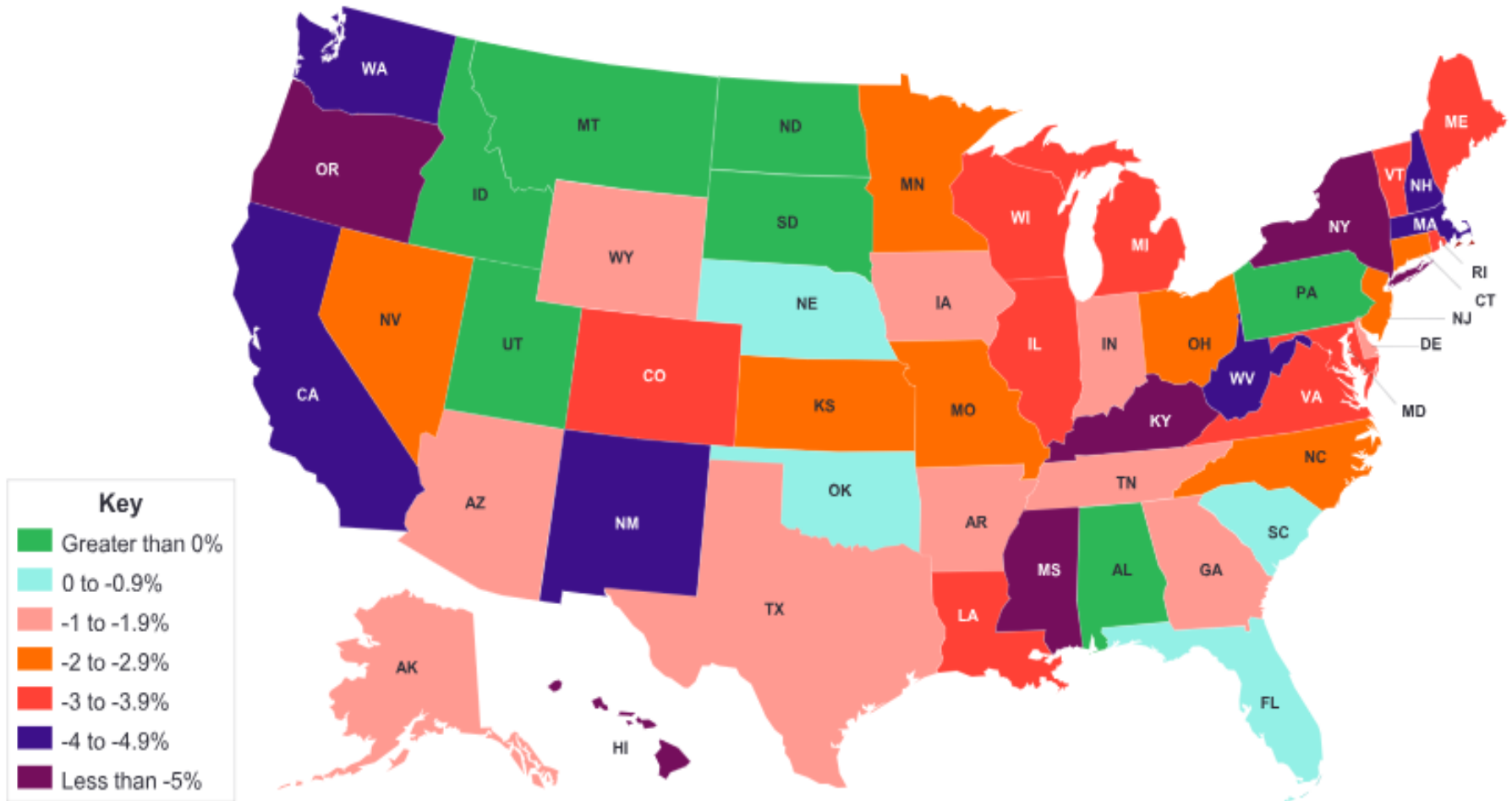
● Births — 2016–22 trend

Note: Each panel illustrates births (and estimated conceptions) from a single quarter each year to account for strong seasonal patterns in birth rates.

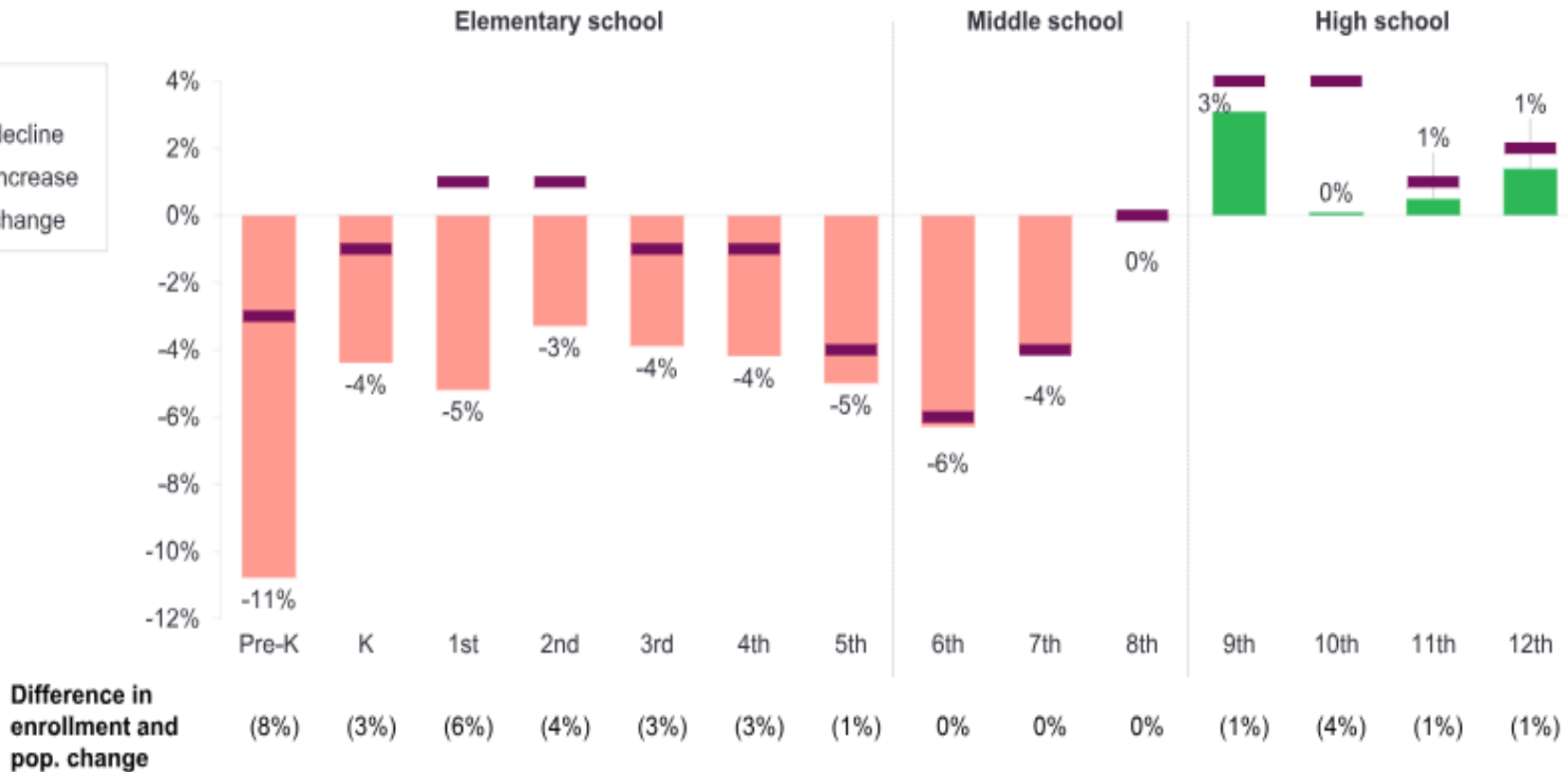
Source: Authors' calculations based on CDC birth data for births between January 2016 and December 2022.

BROOKINGS

Percent change in public school enrollment during COVID (PK – 12) SY2020 – SY2022

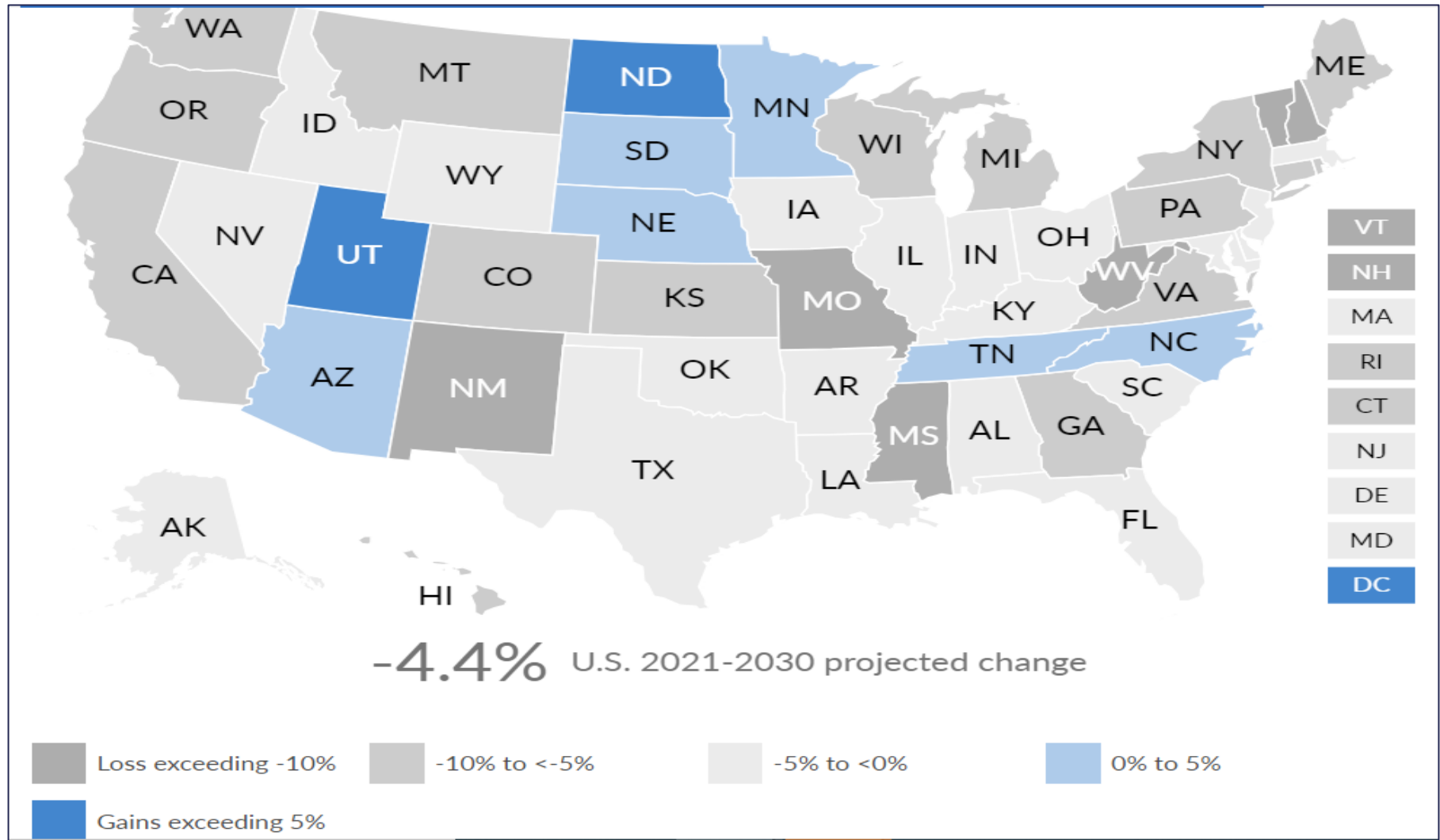


Percent change in enrollment and population¹ by grade SY20 – SY22

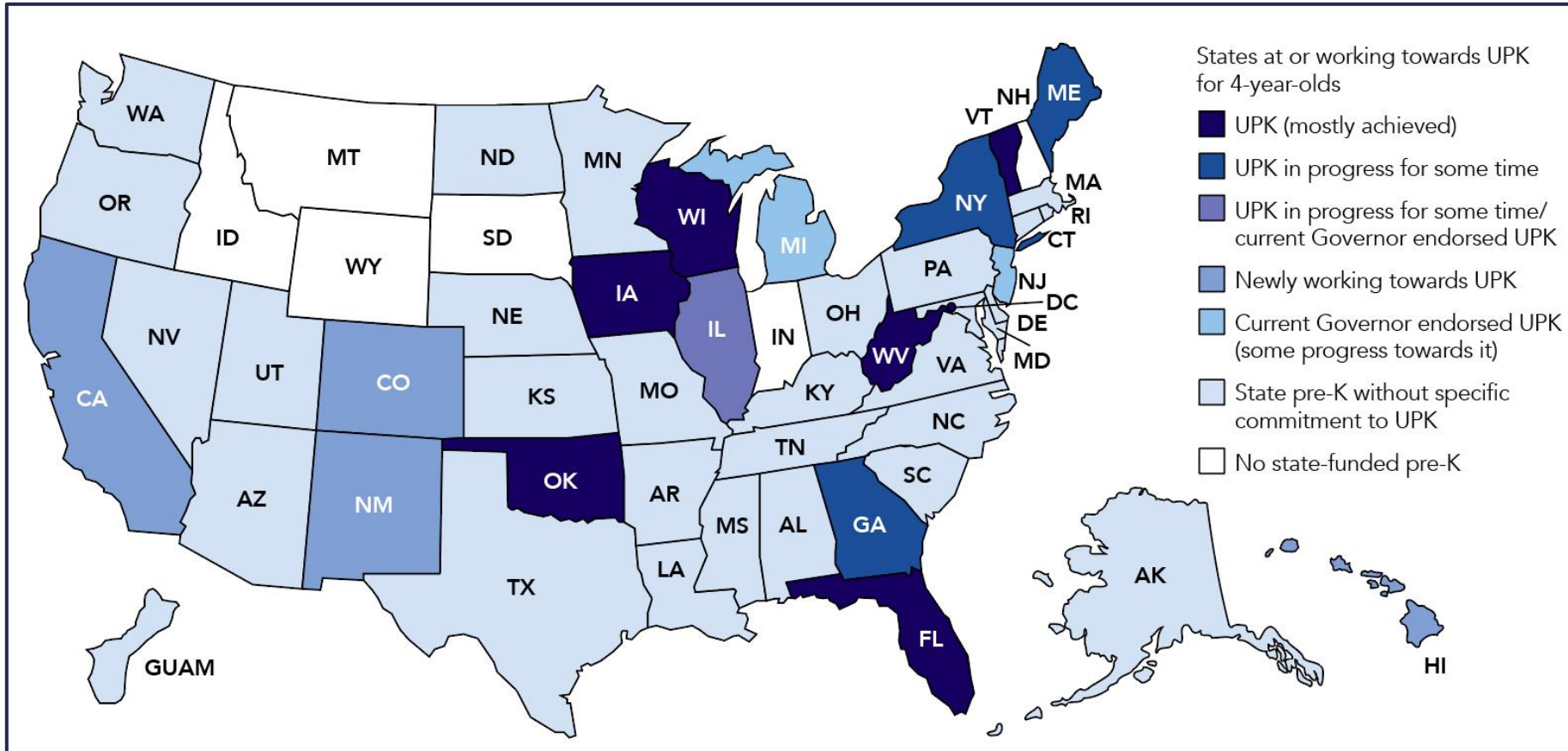


Source: https://www.ey.com/en_us/strategy/declining-enrollment-in-public-k-12-schools

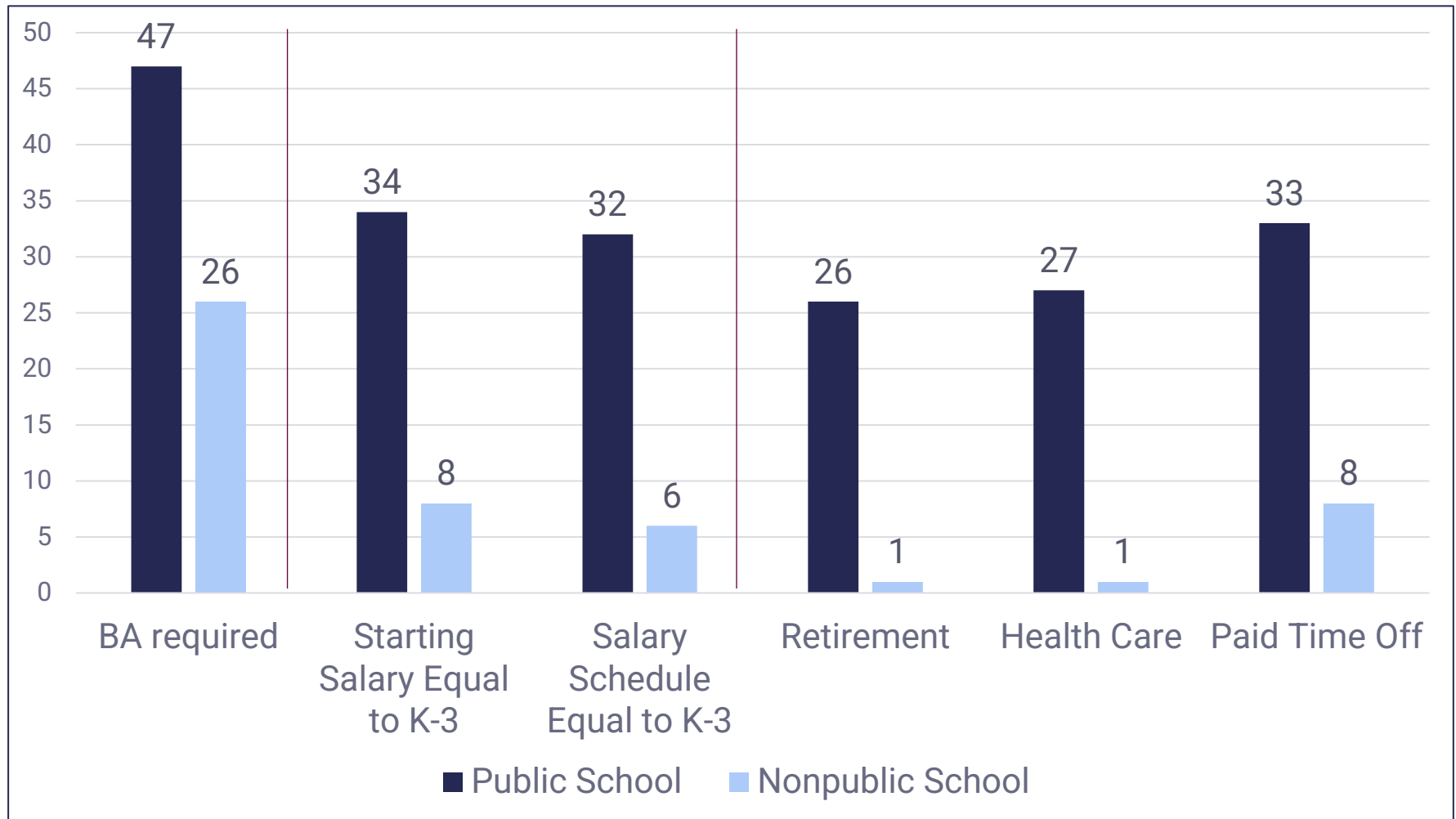
Predicted PK-12 Enrollment Change 2021 to 2030



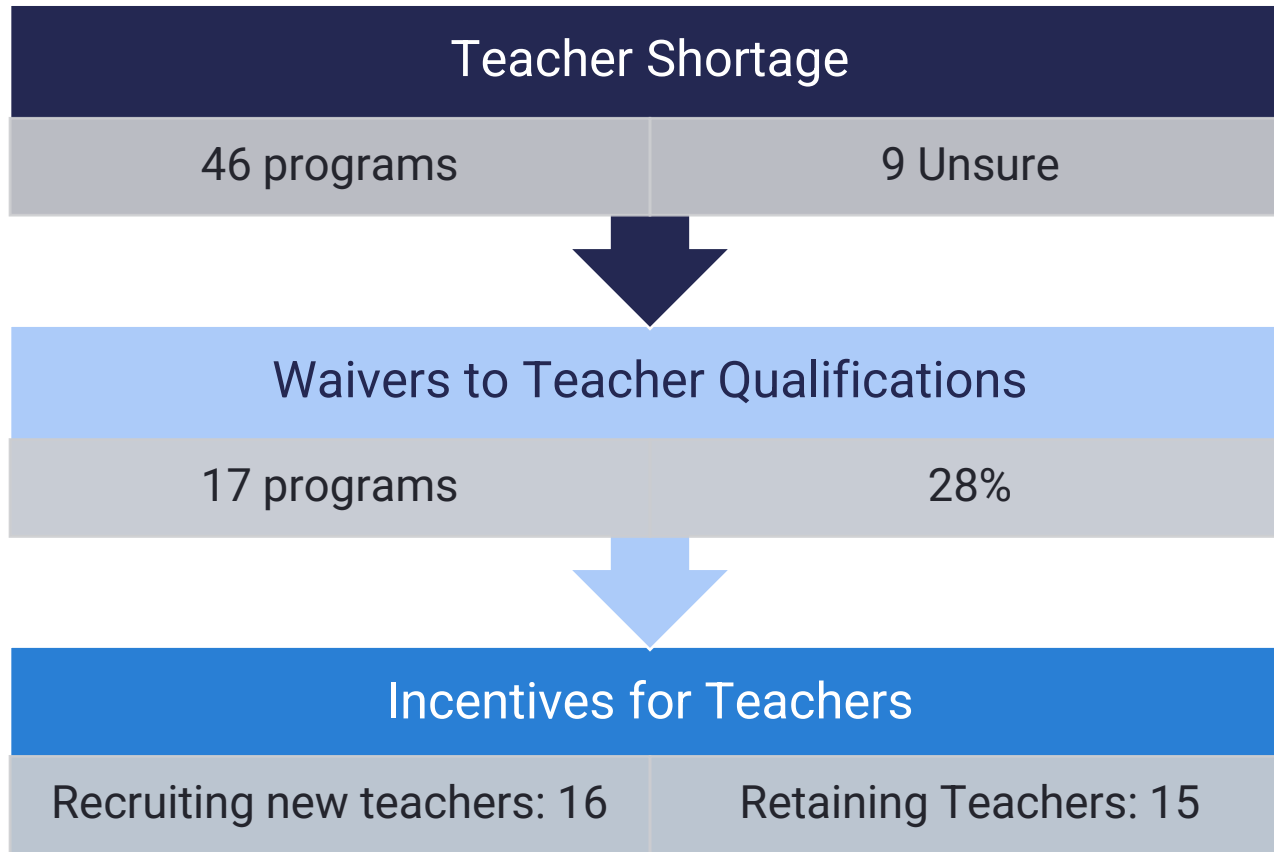
On the Move to Universal Pre-K



Pre-K Teacher Compensation Parity



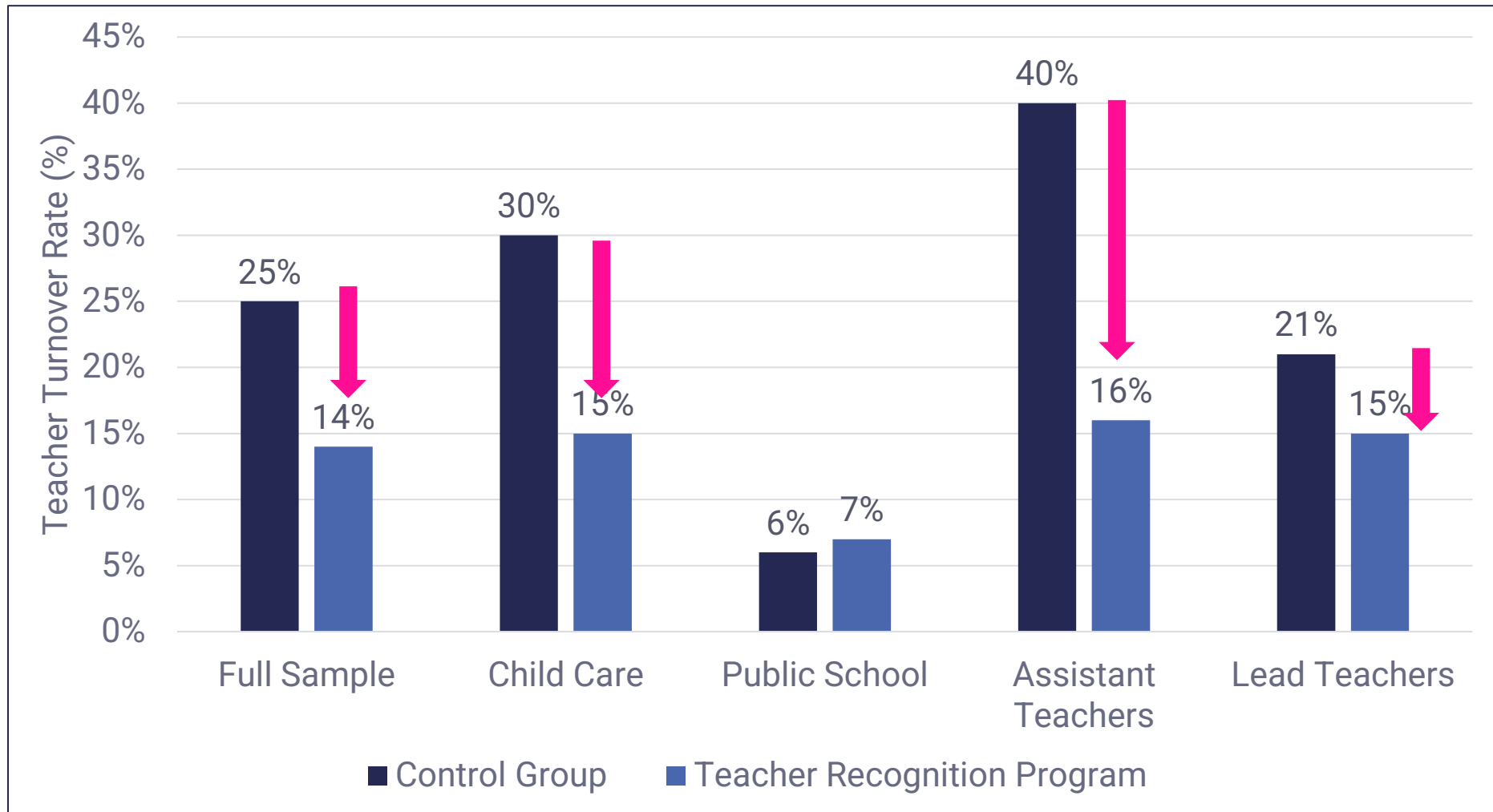
Pre-K Teacher Shortages



Incentives for Pre-K Teachers in Virginia

- First randomized controlled trial of the impacts of financial incentives on ECE teacher turnover
- **Teacher Recognition Program:** \$1,500 to teachers who remained at their site for 8 months
 - In 2019, prior to Covid-19 pandemic
- Turnover was high –18.5% of teachers left, but higher in child care and for assistant teachers

Teacher Recognition Program Impacts



Newer ECE Measures



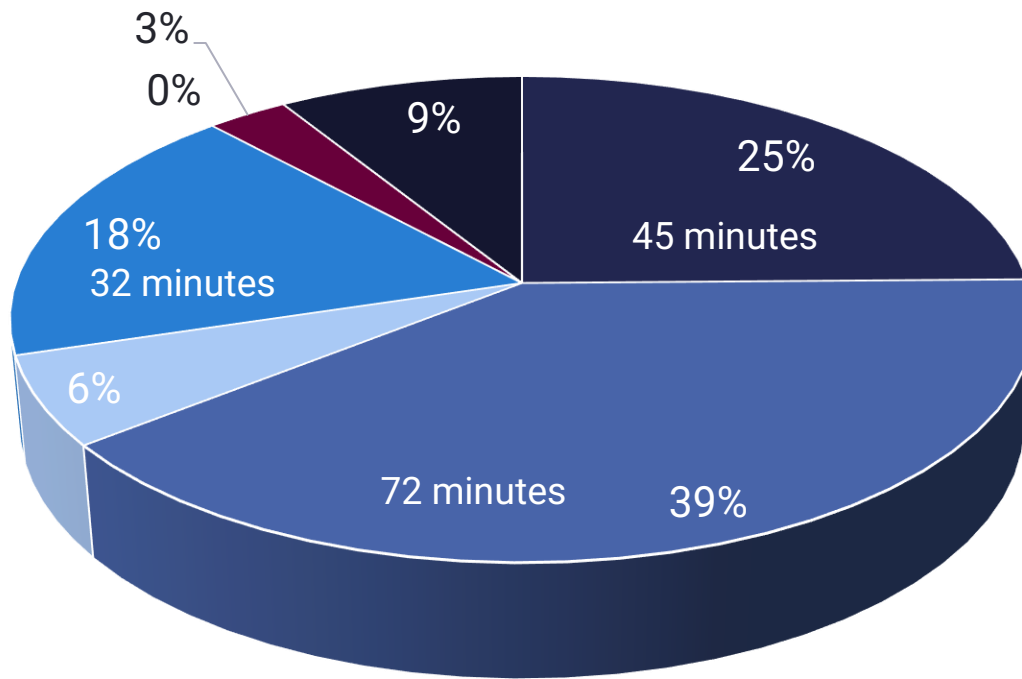
1. EduSnap
2. CASEBA
3. Inclusion Classroom Profile (ICP)
4. Sustained Shared Thinking and Emotional Well-being (SSTEWEW) Scale
5. Early Education Essentials

EduSnap (Ritchie et al., 2015)

- Comprehensive picture of learning opportunities and interactions during the day
- Quantifies children's experiences by instructional groupings, content, pedagogical strategies
- Minute by minute observation focused on sampled children

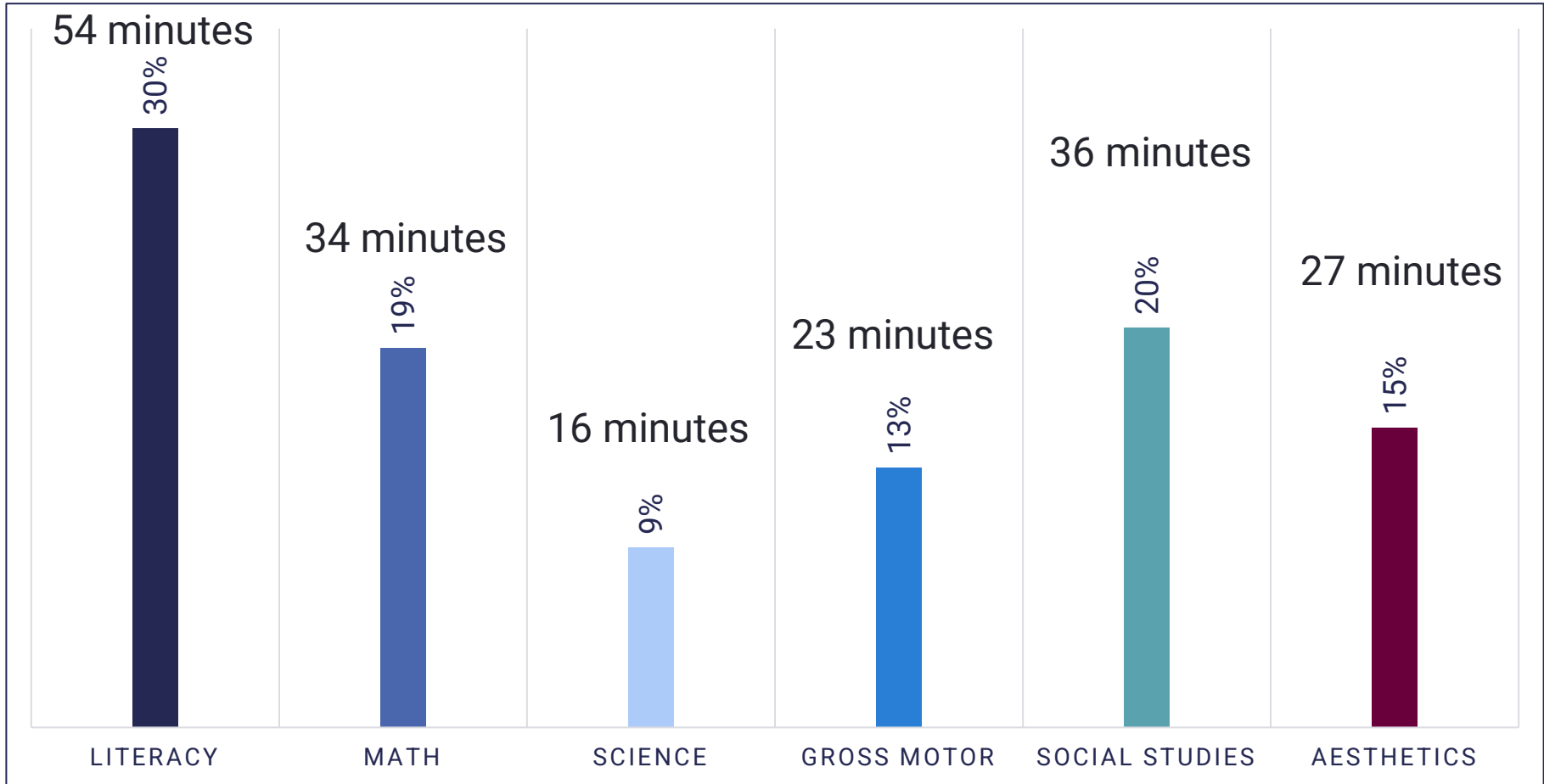


Activity Setting Codes



- Whole Group (All children together)
- Choice (Children pick activity)
- Small Group (Some children)
- Transitions (Waiting)
- Group Work (Children work together)
- Individual (Children work alone)
- Meals

Percentage of Time and Minutes Spent in Content Areas



Classroom Assessment of Supports for Emergent Bilingual Acquisition

(Freedson, Figueras-Daniel, & Frede (2009))

Lead teacher home language support

Assistant teacher home language support

English language support

Responsive environment for DLLs

Assessment for DLLs

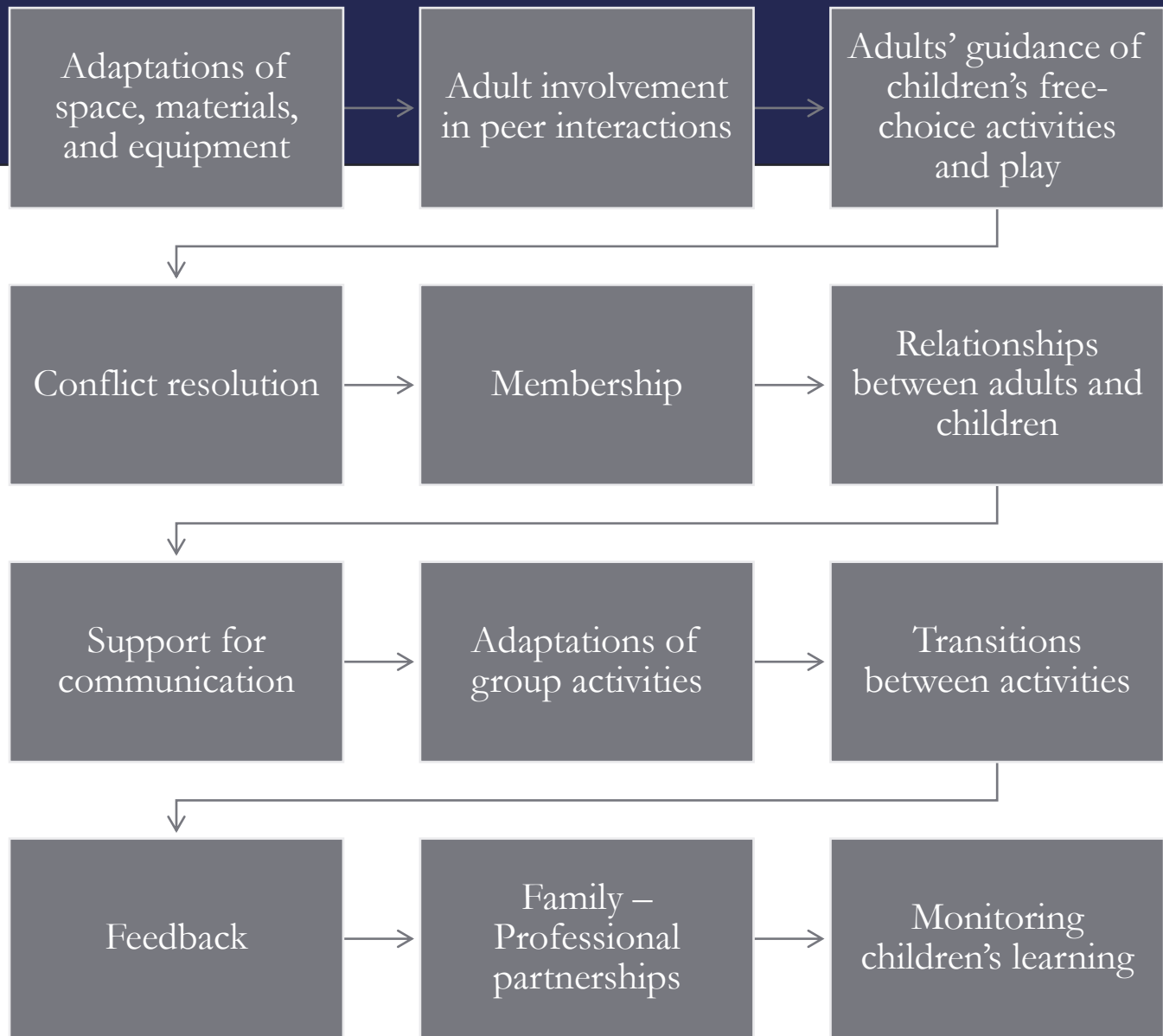
Inclusion Classroom Profile (ICP)

Soukakou (2016)

- The ICP is specifically designed to assess the aspects of inclusive classrooms that are viewed as important to the learning experiences of preschoolers with disabilities
- Items are related to the DEC/NAEYC policy statement of effective inclusion
- Classroom Observation, Teacher Interview, & Document Review



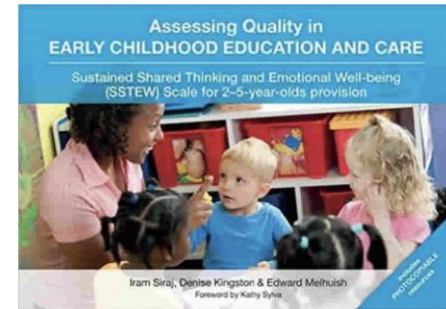
ICP Items



Sustain Shared Thinking & Emotional Well-being (SSTEWS) (Siraj, Kingston, & Melhuish)

Five subscales

1. Building trust, confidence and independence
2. Social and emotional well-being
3. Supporting and extending language and communication
4. Supporting learning and critical thinking
5. Assessing learning and language

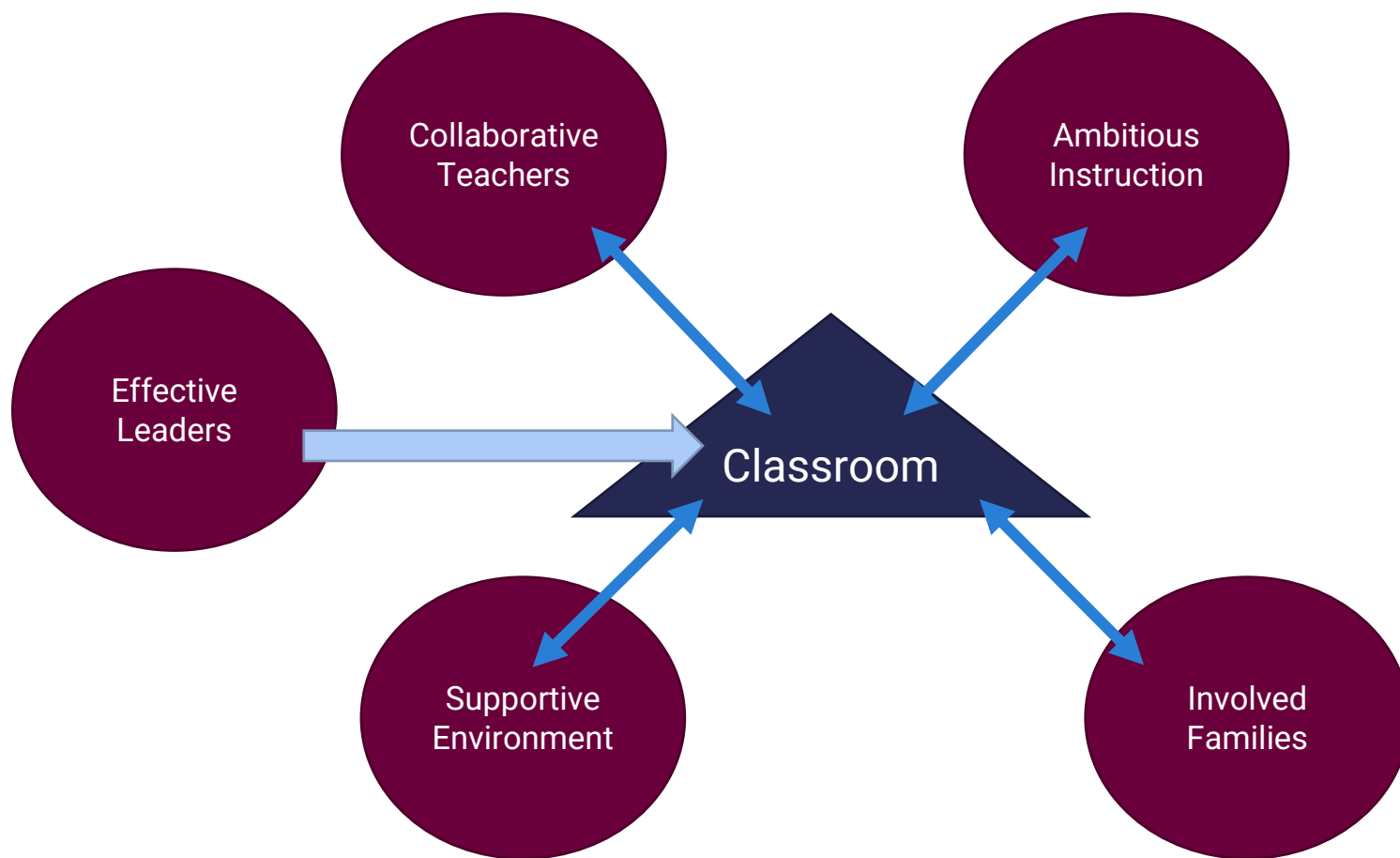


Early Education Essentials

(Ehrlich et al., 2016, 2018, 2019)

- **Measures school-level organization and climate**
- Broadens definition of ECE quality which has been measured mostly by classroom quality
- ECE Quality is broader than what happens in the classroom; district and school characteristics matter too
- Teacher (and parent) reported measure

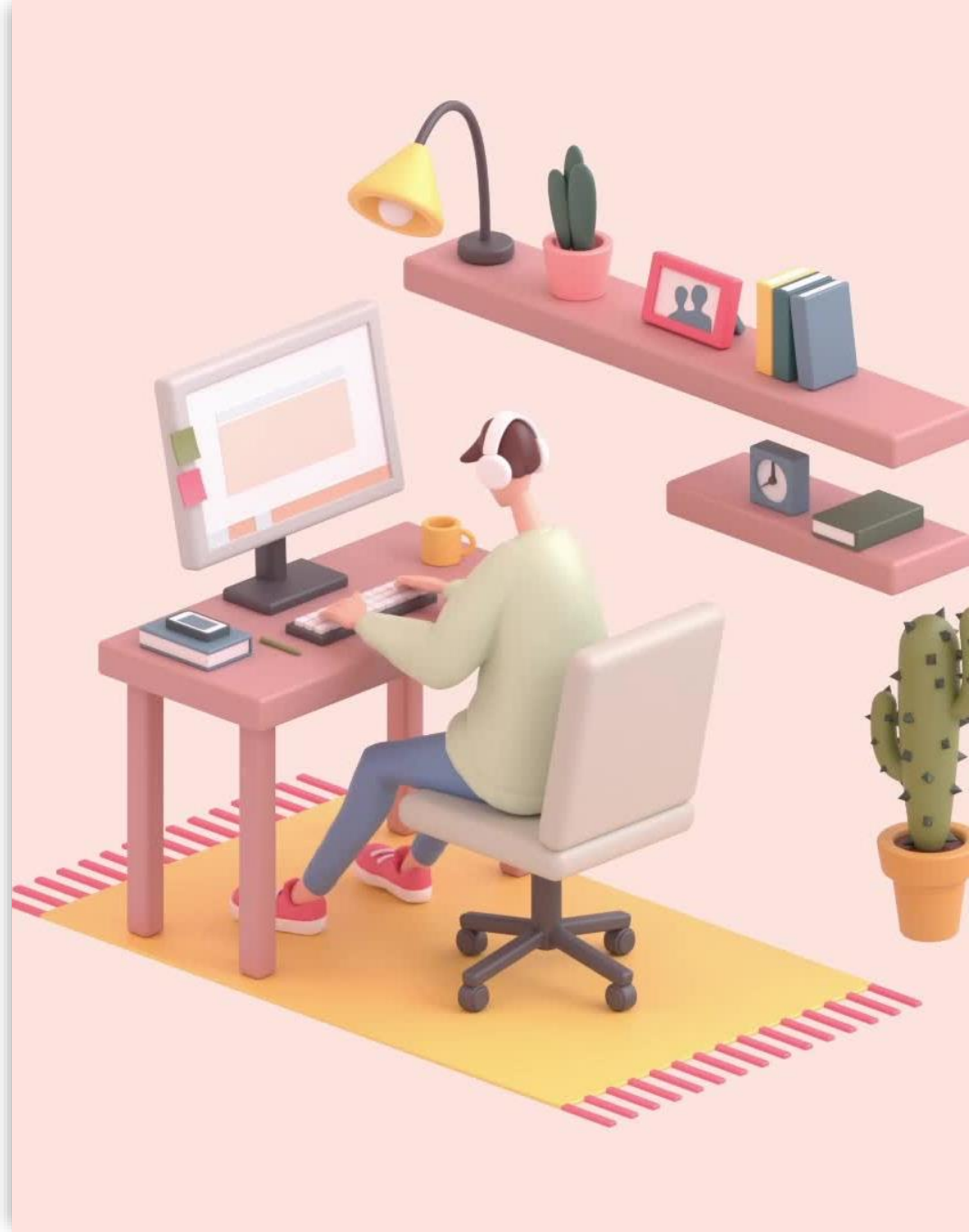
The Five Essential Supports Influence Classroom Practices



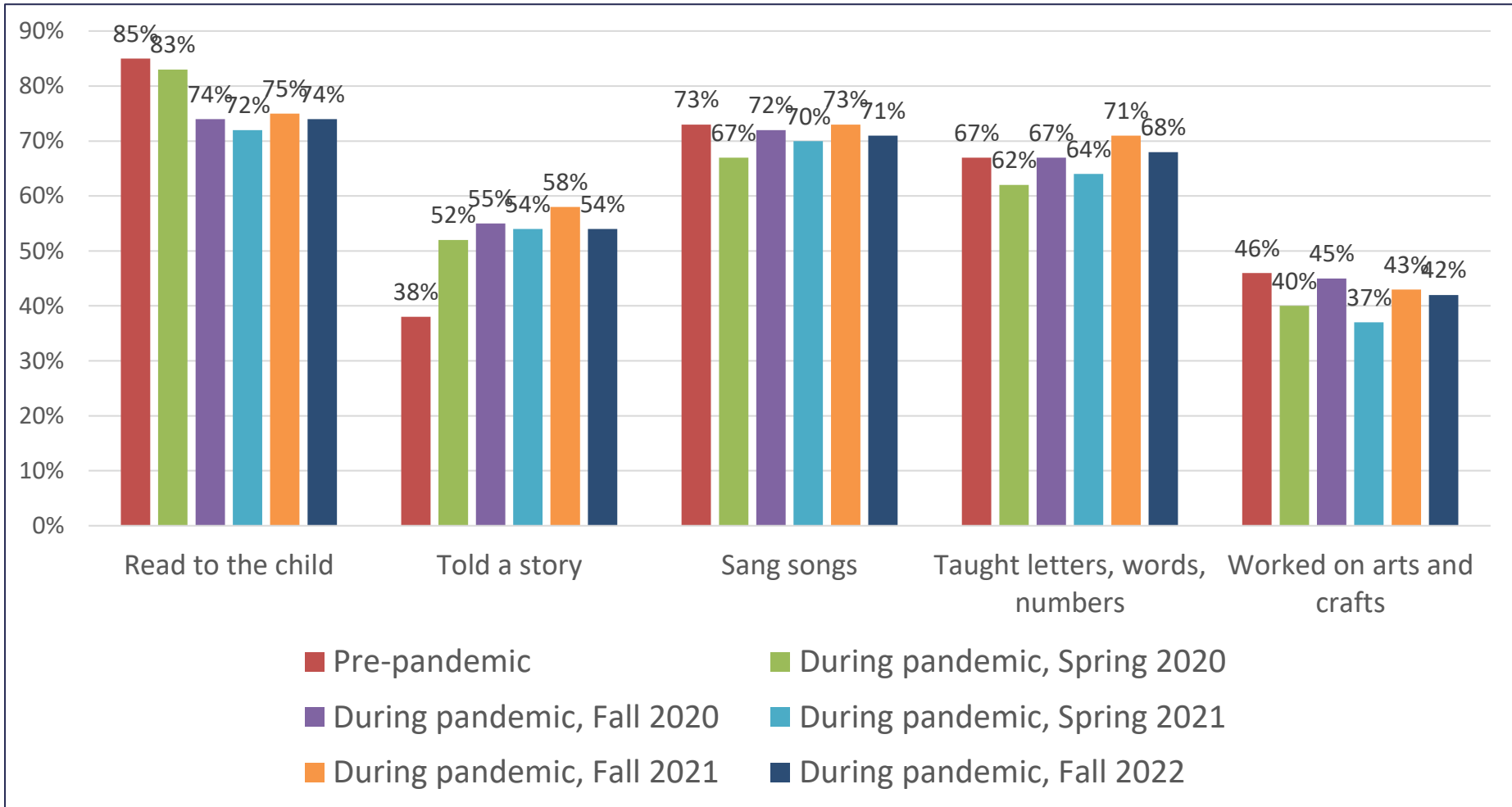
Adapted from Bryk et al.(2010)

Home Learning Activities Also Were Affected by the Pandemic

- **The pandemic altered work and family life behavior patterns**
- **Some of the pandemic-related changes—such as more work from home—have continued**



Parent Activities for Early Learning: Pre-Pandemic 2019, Spring 2020, Fall 2020, Spring 2021, Fall 2021 and Fall 2022: Weighted



High-quality preschool programs can produce a broad array of benefits, especially for children in poverty

Increased academic achievement, school success, and educational attainment

Improved social behavior

Increased earnings, decreased crime, better health

Actual effects can be positive, null, or negative

Most preschool programs are not even “good” and most state funded pre-K effects are about 0 at grade 4

Even though they are the exceptions, high quality public programs have produced desired results, but how can we tell which ones?

Thank you!

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