

# About Presenter

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- To advance through the slide click on the **arrow** below the slide
- To Play the videos click on the box labeled **Video** or copy URL from notes into your web browser.



# Massachusetts Early Learning Guidelines for Infants and Toddlers

## Module 2 – Session 1 Cognitive Development

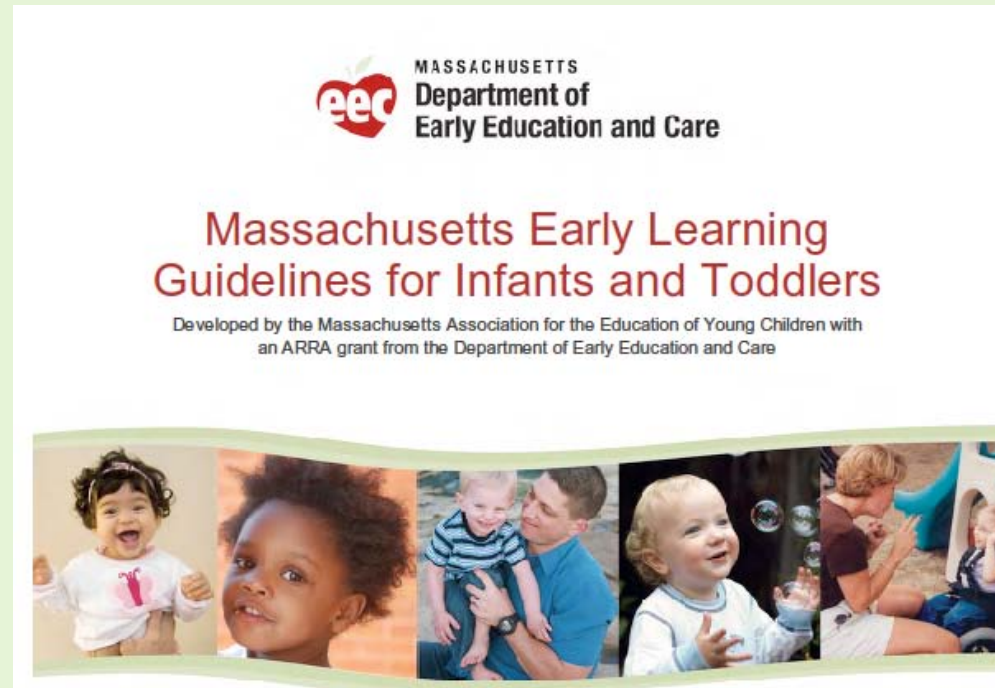
**Massachusetts Department of Early  
Education and Care**

# Early Learning Guidelines

- Access from web:

<http://www.eec.state.ma.us/docs1/WorkforceDev/Layout.pdf>

- Read pages 46-64  
and pages 120-143.



# Cognitive Development Matters

- Watch video:
  - Why experiences build brains and cognitive development
  - How relationships link with cognitive development
  - Why we can end the nature/nurture debate



3:58

# Cognitive Development

- Refines reflexes into purposeful actions.
- Develops memory skills.
- Performs simple actions to make things happen and displays a beginning understanding of cause and effect.
- Develops and experiments with problem solving.
- Explores materials and discovers mathematical concepts.
- Explores the environment by making new discoveries.
- Discovers creative expression through music, drama, dance and art experiences.
- Becomes aware of family and others in the community.



# Reflexes to Purposeful Action

- Quick video of infant reflexes
- Toddler showing intentional activity,
  - How are reflexes turning into purposeful actions?
  - What was the purpose of the action?



0:49



1:03

# Develops Memory Skills

- Watch research with one year olds
  - What memory did this demonstrate?
- Playing peek-a-boo
  - How is memory increased by playing this traditional game?
- Toddler singing



2:10



1:21



1:01



# Cause and Effect

- Baby playing with toy
  - What is infant testing?
  - What is adult response?



1:14

- 16 month old playing with fathers hood string
  - What does the child notice?
  - What does the father do to allow this exploration?



1:54



# Problem Solving Skill

- Infant research

- How did the baby respond?



2:03

- Toddler Problem solving?

- What is the girl trying to do?
- What help does the adult give her?



3:19

# Explores Materials to Discover Mathematical Concepts

- Infant know math?
  - How did the researcher know what the baby knew?
  - Were you surprised by what the 10 month old knew?
- Toddlers
  - What is Anthony learning about balance?
  - What is this toddler learning about shapes?



1:00



1:00



2:12

# Explores Environment

- Infant with balls
  - What is the baby trying to do?



4:10

- Ace works with a buckle
  - What does Ace want to practice?
  - What does he need the adult to do?



0:52



# Discovers Creative Expression

- Linking movement with cognitive development for infants
  - What effect does music have on infant movement?
- Michelle makes a face
  - What skills is she using?
- Pretend Play
  - How does pretending to be a frog help children learn?



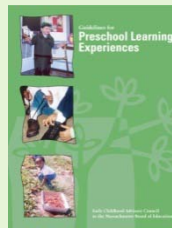
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2:54



1:06



# Becomes Aware of Family & Others

- Attachment
  - How does it support learning?
- Attunement
  - What does it mean for infants?
- Importance of play
  - How does imaginary pretend play show that toddlers are aware of others, the roles they take (foundations for social sciences)?



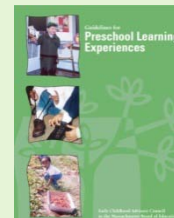
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2:49



5:11





# Cognitive Development Matters

- Watch video

- What percentage of the brain develops during the first year?



5:40

- Watch second video

- What is the key information about cognitive development?



5:15