iCEV Child Development

Knowledge and Skill Statement	Student Expectation	Breakout	iCEV Citation			
			Narrative/Activity	Type of Citation (New Content/New Citation)	Lesson Title	New Location
(3) The student examines the care, protection, and safety of children. The student is expected to:	(F) assess the safety of children's cribs, toys, clothing, food, and travel safety equipment; and	(iii) assess the safety of children's clothing	Activity	New Content	Baby Basics: Clothing	Project-What to Wear
(4) The student investigates components of optimal prenatal care and development. The student is expected to:	(B) analyze the effect of environmental and hereditary factors on conception and fetal development, including prenatal brain development;	(i) analyze the effect of environmental factors on conception	Activity	New Content	Preconception Health and Wellbeing	Project-Preconception Health and Well-Being
(5) The student investigates strategies for optimizing the development of children ages birth through 12 months, including those with special needs. The student is expected to:	(C) analyze the impact of technology such as personal usage or exposure and assistive technologies on the growth and development of children ages birth through 12 months;	(iii) analyze the impact of assistive technologies on the growth of children ages birth through 12 months	Narrative	New Content	The Impact of Technology on Child Development	Student Handout-Impacts of Assistive Technologies
(5) The student investigates strategies for optimizing the development of children ages birth through 12 months, including those with special needs. The student is expected to:	(C) analyze the impact of technology such as personal usage or exposure and assistive technologies on the growth and development of children ages birth through 12 months;	(iii) analyze the impact of assistive technologies on the growth of children ages birth through 12 months	Activity	New Content	The Impact of Technology on Child Development	Activity-Analysis of Assistive Technologies
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(5) The student investigates strategies	(E) identify appropriate nutrition and ways to meet nutritional needs, including breast feeding and formula feeding, and considerations related to food allergies for children ages birth through twelve months.	(iv) identify appropriate considerations related to food allergies for children ages birth through twelve months	Narrative	New Content	Baby Basics: Feeding	Student Handout-Allergies and Intolerances in Children
(6) The student investigates strategies for optimizing the development of children ages 13 months through 35 months, including those with special needs. The student is expected to:	(C) analyze the impact of technology such as personal usage and assistive technologies on the growth and development of children ages 13 months through 35 months;	(iii) analyze the impact of assistive technologies on the growth of children ages 13 months through 35 months	Narrative	New Content	The Impact of Technology on Child Development	Student Handout-Impacts of Assistive Technologies
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(6) The student investigates strategies for optimizing the development of children ages 13 months through 35 months, including those with special needs. The student is expected to:	(C) analyze the impact of technology such as personal usage and assistive technologies on the growth and development of children ages 13 months through 35 months;	(iv) analyze the impact of assistive technologies on the development of children ages 13 months through 35 months	Activity	New Content	The Impact of Technology on Child Development	Activity-Analysis of Assistive Technologies
(9) The student analyzes the growth and development of children ages 12 through 19 years, including those with special needs. The student is expected to:	(I) propose short- and long-term career goals in child development.	(i) propose short-term career goals in child development	Narrative	New Content	Careers in Child Development	Student Handout-Career Goals in Child Development
(9) The student analyzes the growth and development of children ages 12 through 19 years, including those with special needs. The student is expected to:	(I) propose short- and long-term career goals in child development.	(ii) propose long-term career goals in child development	Narrative	New Content	Careers in Child Development	Student Handout-Career Goals in Child Development

What to Wear?

Project Overview:
You will create multiple outfits for a newborn infant according to individual scenarios and assess the safety of children's clothing.

Directions:

1. Create outfits based on the following scenarios. Be sure to account for all considerations and include any extra pieces to bring along which you would not initially dress the baby in.

2. Once complete, submit your project according to your instructor's directions.

Scenarios:

1. You and your newborn are taking a day trip to the beach. Create an outfit which is <u>appropriate</u> for a 20 minute walk on the beach during a 90ºF (32.2ºC) day.

What to Wear?

2. Imagine you are taking your newborn shopping on a snowy day and will be in and out of the vehicle going into stores. Create an outfit which is <u>appropriate</u> for shopping on a cold day.

What to Wear?

3. It is time to lay your newborn baby down for bedtime. Create an outfit which is <u>NOT appropriate</u> for a newborn to sleep in. Be sure to identify all components which present a hazard.

Questions:

1. How do the outfits created impact the safety of the newborn?

2. What are three ways the clothing children wear provide safety?

What to Wear?

Rubric

Description	Possible Points	Your Score
Research & Organization: • Proper research was conducted to complete the assignment • Information was presented in a logical organized manner	20	
Concept & Understanding: • Understanding of the concept is clearly evident • Effective strategies were used to achieve the end product • Logical thinking was utilized to arrive at the conclusion	35	
Creativity/Craftmanship: • End product is unique and reflects the student's or group's individuality • End product is clearly high quality	30	
Production/Effort: • Class time provided for the project was used efficiently • Time and effort are evident in the execution of the end product	15	
Total Points	100	

Additional Comments:

Preconception Health & Well-Being

Project Overview:
You will research the various reasons for medical care prior to pregnancy, maintaining healthy lifestyle behaviors and community resources for obtaining care in order to develop a pamphlet illustrating and summarizing your findings.

Directions:

1. Using all available resources, investigate reasons individuals should schedule regular medical check-ups prior to pregnancy and maintain healthy lifestyle behaviors.

2. In addition, locate community resources available to help individuals locate information on medical care, facilities to help maintain physical health such as parks, health clubs or public pools and mental health or counseling services.

3. Using your research, develop a pamphlet to summarize and illustrate your findings. The pamphlet must include:
    - Three panels
        - panel one: medical care
            - five reasons for maintaining regular medical check-ups prior to pregnancy
            - three community resources to help people who may not have access to health insurance benefits
        - panel two: physical health
            - three environmental factors which may impact conception
            - five reasons for maintaining physical health prior to pregnancy
            - five community locations to help maintain physical health
                - for example: parks, public swimming pools or health clubs
        - panel three: mental health
            - five reasons for maintaining mental health prior to pregnancy
            - three community resources to help with mental health
                - for example: counseling services
    - At least one illustration or graphic per panel
    - List of sources utilized

4. Submit your completed project as directed.

Preconception Health & Well-being

Rubric

Description	Points	Your Score
Research & Organization: • Proper research was conducted to complete the assignment • Sources were cited appropriately based on instructions provided • Information was presented in a logical organized manner	35	
Concept & Understanding: • Understanding of the concept is clearly evident • Effective strategies were used to achieve the end product • Logical thinking was utilized to arrive at the conclusion	35	
Creativity/Craftmanship: • End product is unique and reflects the student's or group's individuality • End product is clearly high quality	15	
Production/Effort: • Class time provided for the project was used efficiently • Time and effort are evident in the execution of the end product	15	
Total Points	100	

Additional Comments:

Impacts of Assistive Technologies

Assistive technologies are any devices, products or software used to increase, maintain or improve the capabilities of a child with a disability. The innovation of assistive technologies has supported the development, growth and education of children with mobility, hearing or vision impairments. Overall, assistive technologies ensure children can participate in daily life and helps them develop a sense of independence.

Many types of assistive technologies exist to support children with communication, mobility, positioning, self-care, playing, learning and hearing. While assistive technologies vary based on individual needs, some common examples include:
- Voice amplification systems to help individuals who are hard of hearing or have difficulty speaking loudly
- Speech generating devices to support communication with the world
- Laminated boards with pictures to allow individuals to communicate needs
- Noise-blocking headphones to decrease auditory stimulation
- Cochlear implants to provide hearing for deaf individuals
- Fidget toys to increase stimulation for improved focus
- Screen-reading software for visually impaired individuals
- Devices with flashing alerts to draw attention for visually impaired individuals
- Large print materials to support vision impaired individuals
- Devices with larger buttons to support individuals with mobility concerns
- Wheelchairs, walkers, canes, crutches and scooters support individuals with mobility concerns
- Adapted grips for utensils and writing implements support fine motor skill development
- Bowls and cups with suction cups provide stability for individuals who need steadiness when eating

The benefits of using assistive technology are wide-reaching. Not only do assistive technologies help children compensate for deficits in their environment, but they also help children keep up with key growth and development milestones. While each case of assistive technology use is unique, common effects on children include:
- Infants (0-12 months)
  - Brain development related to language acquisition and phonological sounds
  - Bonding with others through shared experiences
  - Support of sensory integration
  - Development of eye coordination, hand-eye coordination and visual processing
  - Ability to convey needs and desires
  - Successfully play with toys
  - Develop sense of autonomy
  - Promote emotional regulation

Impacts of Assistive Technologies

- Toddlers (12-35 months)
  - Support of language acquisition
  - Development of fine motor skills
  - Ability to move independently
  - Successfully make independent choices
  - Development of cognitive communication skills
  - Contribute to sensory integration and processing
  - Brain development related to memory and fine motor skills
  - Sustainable attention and concentration skills
- School-age (36 + months)
  - Refinement of fine motor skills
  - Support development of full sentence communication
  - Engage with peers within school and community
  - Communicate emotional needs
  - Brain development related to problem-solving and critical thinking
  - Foster intellectual growth such as memory and attention
  - Enable ownership of learning
  - Development of self-confidence in abilities

Analysis of Assistive Technologies

Activity Overview:
You will analyze the impact of three different assistive technologies that can be used for children birth to 12 months and 13 months through 35 months.

Directions:

1. Your instructor will divide the class into groups of two.

2. Using the internet and other available resources you will research the impact of three different assistive technologies for children birth to 12 months and 13 through 35 months.

3. Once completed, turn in according to your instructor's directions.

Birth to 12 months

Describe an example of assistive technology that may be used for children birth to 12 months.

What area of development does the technology help a child with?

Explain how the technology impacts a child's growth and development.

13 through 35 months

Describe an example of assistive technology that may be used for children birth to 13 through 35 months.

What area of development does the technology help a child with?

Explain how the technology impacts a child's growth and development.

Age Group: _____

Describe an example of assistive technology that may be used for the age group you chose.

What area of development does the technology help a child with?

Explain how the technology impacts a child's growth and development.

Allergies & Intolerances in Children

There are many factors to consider to meet the nutritional needs of children birth to twelve months. Two considerations are allergies and intolerances. A food allergy is an immune response to the protein in the food item. Whereas, a food intolerance is a non-immune response causing the nutrient to not be digested properly. When feeding children, it is important to monitor their body responses to all food they are consuming in order to maintain the child's health. Closely monitoring allows one to better identify when an intolerance or allergy may be impacting the child. When feeding infants, mothers who are breastfeeding may have to alter their diets to limit or eliminate the exposure to food items the child may be allergic or intolerant to. Additionally, families who formula feed their children may have to purchase special formula in order to accommodate allergies or intolerances.

- Common food items associated with allergies and intolerances may include:
    – cow's milk
    – peanuts
    – soy
    – wheat
    – eggs

- Common food allergy symptoms may include:
    – swelling of the throat, lips or tongue
    – hives
    – rash
    – coughing
    – difficulty breathing

- Common food intolerance symptoms may include:
    – gas
    – diarrhea
    – constipation

Career Goals in Child Development

There are many different types of careers individuals may pursue with a focus on child development. Identifying goals in one's career is important. Goals, whether short-term or long-term help one achieve the milestones that lead to the overall career goals.

- Short-term goals are something you want to do in the near future twelve months or less.
- Long-term goals are something you want to do in the future and requires time and long term planning.

It is important to identify how the short term goals may be used as stepping stones toward long term career goals an individual may have.

Short term career goals for a career in child development may include the following:

- taking a class to become a certified babysitter
- writing a resume focusing on child development
- babysitting children
- mentoring young children at church
- job shadowing a school psychologist or social worker

Long term career goals for a career in child development may include the following:

- graduating from college after majoring in child psychology
- earning certification to be a lead in an early childhood classroom
- becoming a director of an early childhood center
- becoming a pediatrician
- graduating with a masters in speech and language pathology