

Appendix A: Relevant Standards

These objectives can help guide the design and evaluation of technologies for early childhood education.

Early Childhood Considerations

[National Head Start Association](https://www.nhsa.org/) (https://www.nhsa.org/)

1. Early: How is this approach to early childhood informed by fetal development?
2. Appropriate: How is this approach developmentally, linguistically and culturally appropriate?
3. Universal Access: How is this approach inclusive of children with disabilities?
4. Diversity: How does this approach support an environment of acceptance and respect for gender, culture, language, ethnicity and family composition?
5. Discipline: How does this approach encourage self control by supporting clear, consistent limits, and having realistic expectations?
6. Empathy: How does this approach encourage respect for the feelings and rights of others?
7. Order: How does this approach include planning for routines and transitions so they occur in a timely, predictable and unrushed manner according to each child's needs?
8. Creativity: How does this approach ensure opportunities for creative self-expression through activities such as art, music, movement and dialogue?
9. Stakeholders: How does this approach foster and include the input of multiple early childhood stakeholders, including children, parents, and child care providers?

AI Ethics Considerations

[UNICEF's Memorandum on Artificial Intelligence and Child Rights](http://bit.ly/AIrightsmemo)

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How does this approach to early childhood education:

1. Uphold child rights
2. Prioritize children's development and well-being
3. Protect and nurture children's data agency
4. Ensure transparency, explainability and accountability for children
5. Prioritize safety, protection and AI literacy of children
6. Prioritize equity and inclusion of children

[EU's Requirements of Trustworthy AI](http://bit.ly/EUAIreqs) (http://bit.ly/EUAIreqs)

How does this approach to early childhood education support:

1. Human agency and oversight
2. Technical robustness and safety
3. Privacy and data governance

4. Transparency
5. Diversity, non-discrimination and fairness
6. Societal and environmental well-being
7. Accountability

[Ethical OS Toolkit's Eight Risk Zones](https://ethicalos.org/) (https://ethicalos.org/)

How does this approach to early childhood education consider:

1. Truth, Disinformation, and Propaganda
2. Addiction & the Dopamine Economy
3. Economic & Asset Inequalities
4. Machine Ethics & Algorithmic Biases
5. Surveillance State
6. Data Control & Monetization
7. Implicit Trust & User Understanding
8. Hateful & Criminal Actors