

(Early Mathematics, Science and Technology) (ECE337)

Year of Study: HD Year 2

Term of Study: Term 2

Required Reading

- Brunton, P. & Thornton, L. (2010). *Science in the early years: Building firm foundations from birth to five*. London, UK: Sage. **LB1139.5 S35B78 2010b LB1139.5 S35B78 2010**
E-books: <http://10.137.0.221:8080/cgi-bin/koha/catalogue/detail.pl?biblionumber=7283>
- Tucker, K. (2010). *Mathematics through play in the early year* (2nd ed.). London, UK: Sage. **QA20 G35T83 2010 QA20 G35T83 2014 QA20 G35T83 2014b**
- NAEYC & National Council of Teachers of Mathematics (2010). *Joint position statement - Early childhood mathematics: Promoting good beginnings*. Retrieved 5 December, 2013, from: <http://www.naeyc.org/positionstatements/mathematics>
- NAEYC & Fred Rogers Center for Early Learning and Children's Media at Saint Vincent College (2012). *Joint position statement: Technology and interactive media as tools in early childhood programs serving children from birth through Age 8*. Retrieved 5 December, 2013, from: <http://www.naeyc.org/content/technology-and-young-children>
- NAEYC (2011). *Draft position statement: Technology in early childhood programs serving children from birth through age 8*. <http://www.naeyc.org/files/naeyc/file/positions/Draft%20Technology%20in%20Early%20Childhood%20Programs%204-29-2011.pdf> (X)
- Sylva, K., Siraj-Blatchford, I., & Taggart, B. (2010). *The four curricular subscales extension to the early childhood environment rating scale (ECERS-E), (4th Ed.)* New York, NY: Teachers' College Press. **LB2822.6 S95 2011 LB2822.6 S95 2011 c.2 LB2822.6 S95 2011 c.3 LB2822.6 S95 2011 c.4**

Supplementary Reading

- Brooks, J.G. (2011). *Big science for growing minds: constructivist classrooms for young thinkers*. New York, NY: Teachers' College Press. **LB1139.5 S35B76 2011 LB1139.5 S35B76 2011 c.2 LB1139.5 S35B76 2011 c.3**
E-book: <http://10.137.0.221:8080/cgi-bin/koha/catalogue/detail.pl?biblionumber=9378>
- Donohue, C., Parette, H.P. & Blurn, C. (2013). *Instructional technology in early childhood' teaching in the digital age*. Baltimore,MD: Brookes. **LB1139.35 C64P37 2013**
- Gelman, R., Brenneman, K., MacDonald, G., Roman, M. (2010). *Preschool pathways to science: Facilitating scientific ways of thinking, talking, doing, and understanding*. Baltimore, MD: Paul H Brookes. **LB1140.5 S35P74 2010**
- Moomaw, S. (2013). *Teaching STEM in the early years: Activities for integrating science, technology, engineering and mathematics*. St. Paul, ML: Redleaf Press. **LB1139.5 S35M66 2013**
E-book: <http://10.137.0.221:8080/cgi-bin/koha/catalogue/detail.pl?biblionumber=8155>
- Plowman, L., McPake, J., & Stephen, C. (2010). The technologisation of childhood? Young children and technology in the home. *Children and Society*, 24(1), 63-74.
Koha, E-journals&databases: no record (lib did not have this journal)
- Schwartz, S.L. & Copeland, S.M. (2010). *Connecting emergent curriculum and standards in the early childhood classroom: Strengthening content and teaching practice (Early childhood education)*. New York, NY: Teacher College Press. **LB1139.25 S393 2010 c.2 LB1139.25 S393 2010 c.3**
E-book: <http://10.137.0.221:8080/cgi-bin/koha/catalogue/detail.pl?biblionumber=9468>

- Shillady, A. (ed.) (2013). *Spotlight on young children: Exploring science*. Washington, DC: NAEYC.
LB1139.5 S35S66 2013
- The Early Math Collaborative (2013). *Big ideas of early mathematics: What teachers of young children need to know (Practical resources in ece)*. London, UK: Pearson.
QA135.6 B766 2014 QA135.6 B766 2014 c.2 QA135.6 B766 2014 c.3
- Verenikina, I., Herrington, J., Peterson, R., & Mantei, J. (2010). Computers and play in early childhood: Affordances and limitations. *Journal of Interactive Learning Research*, 21(2), 271-291.
Koha, E-journals&databases: no record (lib did not have this journal)