**Doctoral Proficiency Examination- Reading List**

**MAJOR AREA READING TOPICS**

**Matematik ve Fen Bilimleri Eğitimi Bölümü** doktora yeterlik sınavına fen eğitimi alanından girecek doktora öğrencilerinin anadal sorusuna hazırlanırken aşağıda verilen listede yer alan kaynaklara çalışmaları önerilmektedir.

**I. Science Learning**

1. Anderson, C. W. (2007). Perspectives on science learning. In S. K. Abell & N. G. Lederman (Eds.), *Handbook of Research on Science Education* (pp. 3-30). New Jersey: Lawrence Erlbaum Associates. 28 pages
2. Duit, R. & Treagust, D. E. (2012). How can conceptual change contribute to theory and practice in science education? In B.J. Fraser, K. G. Tobin & C. J., McRobbie (Eds.), Second International Handbook of Science Education (pp.107-118). New York: Springer. 12 pages

**II. Science Teacher Education**

3. Abell, S. K. (2007). Research on science teacher knowledge. In S. K. Abell & N.G. Lederman (Eds.) *Handbook of Research on Science Education* (pp. 1105-1149). New Jersey: Lawrence Erlbaum Associates. 45 pages

**III. Science Teaching**

4. McDonald, C.V. & McRobbie, C.J. (2012). Utilising argumentation to teach nature of science. In B.J. Fraser, K. G. Tobin & C. J., McRobbie (Eds.), *Second International Handbook of Science Education* (pp.969-986). New York: Springer. 18 pages

5. Hofstein, A., & Kind, P. M. (2012). Learning in and from science laboratories. In B.J. Fraser, K. G. Tobin & C.J., McRobbie (Eds.), Second International Handbook of Science Education (pp.189-207). New York: Springer. 18 pages

**V. Science Curriculum**

6. Coll, R. K. & Taylor, N. (2012). An international perspective on science curriculum development and implementation. In B. J. Fraser, K. G. Tobin & C. J., McRobbie (Eds.), *Second International Handbook of Science Education* (pp.771-782). New York: Springer. 13 pages

7. 2018 yılı Fen Bilimleri, Fizik, Kimya, Biyoloji Dersi Öğretim Programı. Her öğrenci sınava girdiği alanın öğretim programından sorumludur. 50 pages