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Royal Education Council



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Circular

The Royal Education Council (REC) is in the process of reforming the science curriculum for Classes IV to XII. The development of science textbooks and manuals for Classes IV to IX and XI are complete and implemented from 2013 academic session. *From 2017 academic session the following textbooks will be introduced.*

1. *Physics Textbooks for class X*
2. *Chemistry Textbooks for class X*
3. *Biology Textbooks for class X*
4. *Physics Textbooks for class XII*
5. *Chemistry Textbooks for class XII*
6. *Biology Textbooks for class XII*
7. *Physics Practical Work Manual for class XI & XII*
8. *Chemistry Practical Work Manual for class XI & XII*
9. *Biology Practical Work Manual for class XI & XII*

These textbooks have been developed as per the Science Curriculum Framework for Classes PP – XII (2012), and hence has the following salient features.

- The books are designated to conceptual strands of Life processes, Materials and their properties, and Physical processes.
- Although the scientific concepts as such remain unchanged, topics selected to deliver them are different. Topics are more extensive with greater depth, but are developmentally appropriate to this cohort of learners.
- Learning activities in the textbooks are designed as connector to the concepts described rather than as reinforcement.
- The mode of assessment has been modified to ensure that the three domains of science learning objectives are achieved. Much emphasis is accorded on the use of competency based test so as to contribute towards 21st Century Learning.
- The practical works for class X are integrated in the form of activities and a separate practical works must be carried out for class XII as stated in the framework.
- The project work is treated as mini research work and therefore, a single project work spanned over two years (XI & XII) cumulating to 10 marks for BHSCE.

As such, all Dzongkhags/ Thomdeys must ensure to make necessary arrangements to procure the new Science Textbook for Class X and XII, and replace the existing textbooks with effect from the 2017 academic session. This circular is also available at www.curriculum.bt of the Royal Education Council.

(Kesang Choden Dorji)
Director

Copy to:

1. Hon'ble Secretary, MoE, Thimphu
2. Director General, DAHE, DYS, MoE, Thimphu



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3. Director General, DSE, MoE, Thimphu.
4. Secretary, BCSEA, Thimphu
5. Director General, Colleges of Education, Paro and Samtse
6. Dean, CDC, REC
7. Chief, AFD, MoE
8. Chief, PMU, REC
9. Unit Head, CDC, REC
10. All Dzongkhag/Thomdey Education Officers