



Historical Timeline

Learning outcome: Students will be able to construct a time line on cash register tape to reconstruct the changes in organisms through time from single celled bacteria to multicellular mammals.

Assessed QCCs:

13.4 Identifies common examples of organisms in each of the kingdoms

Materials: cash register tape, colored pencils, and textbook (Johnson, G., Raven P. *Biology, Principles & Explorations*. Holt, Rinehart, and Winston. New York. 2001).

Additional learning outcomes QCCs:

12.1 Explains historical and current theories of origin such as evolution.

12.2 Compares micro- and macro evolution

Students determine relationships when using a classification model to group living things.

Total duration: 90 minutes

Procedure:

1. Students will use the information in the referenced textbook on pages 258-268 or on the inside cover at the back of the book as a replica of the timeline that they are constructing.
2. Students will measure the length of the timeline in the book.
3. Students will measure the same amount of cash register tape and cut it to equal the length of the time line in the book.
4. Students will produce a replica of the time line in the book using the same geological time periods, some representatives of the organisms that evolved during each time period, and make their timeline colorful.

Evaluation:

A RUBRIC detailing the number of possible points for each measurable outcome will be used to evaluate each time line.