

CHRONOLOGY LAB DIRECTIONS 2013

MATERIALS:

- Chronology Lab Directions (this sheet)
- Hominin Chron Table 2013 (listing ages of each hominin fossil)
- Chronology of Fossil Hominins: 2013 (horizontal lines at 200,000 year intervals)

DIRECTIONS: READ ALL DIRECTIONS BEFORE STARTING!

Using the **Hominin Chron Table 2013**, plot (on the CHRONOLOGY OF FOSSIL HOMININS chart) the range of known existence at least for each species that is shaded and asterisked. Include \checkmark check-marked species if so directed. Do this by marking on the Chronology chart (with pencil) the maximum-minimum range (indicated under "Years Ago" in the table), then connect those marks with a **vertical** line. Add the name of the species just to the left or right of the line. Do this for each species. Be prepared to share results in class.

BEST RESULTS: Start with the **oldest** known hominin (*S. tchadensis*), and plot its vertical line in the **lower left third** of the chart, near the bottom. Then, moving upwards for each of the remaining species, shift about a centimeter to the **right**, and plot its vertical position. [Exception: when you get to *P. robustus* and *P. boisei*, plot their vertical lines about 2 cm to the **right** of *A. africanus*]. Continue the *Homo* species to the **left** of *A. africanus*, shifting about 1 cm further to the **left** for each one in turn. After *H. erectus*, shift to the **right**. See SAMPLE CHART below.

ON THE CHART..."MYA" = Millions of Years Ago; so 0.2 MYA = 200,000 years ago; 1.4 MYA = 1,400,000 years ago, etc. The dotted lines represent the time levels indicated; you should estimate as closely as possible the positions to plot which fall between the lines.

BONUS: If you are interested and have the time, tape some extra sheets of paper to the bottom of the CHRONOLOGY sheet, and continue the time scale (using the same dimensions and distances) so that you can include the points where the different apes apparently branched off and began to evolve towards their modern forms. Likewise, for the earliest hominoids (*Proconsul* and *Aegyptopithecus*). Be sure to label each identified time or range of time with its appropriate group name (species).

SAMPLE CHART

