

## Activity Title:

Age Estimation Revisited

Time Required: 55 minutes

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## Activity Overview:

In this exercise, students will use age estimation skills while viewing a power point picturing various individuals. Students will record age estimate in one column and actual age of individual pictured in a second column. Students will appropriately analyze the results. This activity is appropriate for Algebra I students.

## Concepts:

- Graphing a Scatter plot
- Linear Equation
- Determining best estimator
- Box plot

## Teacher Preparation:

Students should understand how to use the TI-Nspire technology to create a scatter plot, how to obtain a linear model according to instructors expectations, using the spreadsheet to determine the best estimator, creating a box plot and explaining results of data analyzation.

- Review any components of TI-Nspire that are needed to complete this activity effectively.
- A worksheet accompanies this activity which students can complete as a hard copy for a written assignment. The worksheet may be completed at the discretion of the teacher. All answers to questions should be submitted in **sentence form** and the teacher should indicate to students the algebraic manipulation work required on the worksheet.

## **Classroom Management:**

- This activity is designed to be student-centered. The teacher may act as a facilitator while students work independently or cooperatively. The teacher will inform students in which manner they are to work.
- The ready-to-use worksheet will provide a written assignment which can be used for daily credit points.
- The file titled *Ageppt SOL* shows the expected results of working through the activity and the screenshots are included in the step-by-step instructions.

## **TI-Nspire Applications:**

*Calculator, Lists & Spreadsheets, Graphs & Spreadsheets, Notes*

## **Activity Extensions:**

- Similar activities could be developed using other pictures such as cars of various years or other focuses of interest.
- Students may create a power point, subject to teacher approval of appropriate content, for use in the classroom for extra credit.