

THE GOLDEN STUDENT
Group Activity

Name: _____

Other members of your group:

1. _____
2. _____
3. _____

Part 1: Using the measuring tapes, measure each of the following body parts and make a ratio from them. Remember to round to the nearest ½ inch.

- A. Measure the height (HGT) of the person and the height from the floor to their belly button (BB). Form the fractional ratio and record in the chart.
- B. Measure the length of an index finger (FIN) and the distance from the finger tip to the big knuckle of your middle finger (KNU). Form the fractional ratio and record in the chart.
- C. Measure the length of a leg (LEG) from floor to waist and the distance from kneecap to hip of a leg (HIP). Form the fractional ratio and record in the chart.
- D. Measure the length of an arm (ARM) from finger tip to shoulder and the distance from your elbow to your finger tips (ELB). Form the fractional ratio and record in the chart.
- E. Select another pair of body lengths that you may think are golden. Let's call them X and Y. Measure these length, form the fractional ratio, and record in the chart.

Student Names	HGT / BB	FIN / KNU	LEG / HIP	ARM / ELB	X / Y
1.					
2.					
3.					
4.					

- F. Using your calculator, convert each fractional ratio into a decimal and copy into the chart. Remember to divide the top number by the bottom number. Round to the nearest thousandth.

Student Names	HGT / BB	FIN / KNU	LEG / HIP	ARM / ELB	X / Y
1.					
2.					
3.					
4.					

- G. Now circle the ratios which are in the acceptable golden range that the class has chosen.
- H. List the student(s) that have the most circles.

Part 2: As a group, you will gather data from other groups and make a histogram (bar graph) using the data from the entire class.

- A. Select a body ratio to use for your graph such as LEG/HIP. Write the ratio your group has chosen to use for the histogram.
- B. Have one person in your group visit the other groups and write down each student's decimal ratio for the ratio you selected in part A. List the decimals below. Be sure to include your own decimal ratios.

B. How many ratios do you have in each category that we will use?

1.000 – 1.199 _____

1.600 – 1.799 _____

You may need to add more categories!

1.200 – 1.399 _____

1.800 – 1.999 _____

1.400 – 1.599 _____

2.000 – 2.199 _____

C. Using the poster board and markers, construct a histogram of your data. The categories will be on the horizontal axis and the number of students will be on the vertical axis. Be sure to label your graph and axes. Make your scales appropriate to your numbers.

D. Write two paragraphs describing today's lesson. Be sure to include discussion on what you learned about the Golden Ratio from the video and the activity. How could you become more golden?

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Grading Rubric

Grading Scale	Criteria
EXCELLENT 4	<ul style="list-style-type: none">-Awesome group participation-All answers completed and rounded correctly-Completed detailed graph with appropriate titles and scales-Great summary paragraph with clear concise sentences showing complete understanding.
GOOD 3	<ul style="list-style-type: none">-Good group participation-All answers completed-Good graph-Good summary paragraph with complete sentences.
SATISFACTORY 2	<ul style="list-style-type: none">-Adequate group participation-Most answers completed-Good graph but missing scale and/or labels-Summary paragraph contains incomplete sentences or thoughts.
NOT YET 1	<ul style="list-style-type: none">-Unsatisfactory group participation-Some answers completed-Poor graph-Summary paragraph is poorly written with no grasp of understanding or though process.