

Activity 2: Design a Cell Phone for Middle School Students – Teacher Page

This activity is much more open ended and will require more participation from students. They should design a questionnaire to determine which features their friends and classmates (preferably classmates not taking this same class) like the best. As a class, they should assemble this data into Excel charts. Working in groups of 2-3, they can be assigned a specific feature to create a chart for that will best communicate the information with the rest of the class.

After audience research is completed, students can use the design sheet below to sketch the ideal phone for middle school students. Again, they can either estimate costs and battery impact of features or consult with an engineer for more accurate estimates. After designing, they can use their sketches to poll other middle school students about the popularity of their design.

Activity 2: Design a Cell Phone for Middle School Students – Student Pages

Sketch the ideal cell phone for this audience in the space below. We recommend using a pencil so you can erase if you change your mind. You can add additional features below. Estimate what you think each feature would cost and include that in your cost calculations. Estimate whether the features would increase or decrease battery life. Your phone should not cost more than \$120 to produce for this audience, so the sales price will remain below \$220.

Sketch your phone here:

List of features:

Total Cost of Phone: _____

Estimated Battery Life: _____