

3-12-3

The numbers within this protocol refer to the amount of time students have to do each step of the process in small groups:

- **3 MINUTES** TO GENERATE AS MANY THOUGHTS OR IDEAS AS POSSIBLE RELATED TO THE DRIVING QUESTION
- **12 MINUTES** TO DEVELOP A SOLUTION BASED UPON ONLY A COUPLE OF THE WORDS THAT WERE ORIGINALLY BRAINSTORMED
- **3 MINUTES** TO GIVE THEIR PITCH TO THE REST OF THE GROUPS OF STUDENTS

By having such a compressed time period, students are forced to come up with ideas and solutions fast and not to dwell on finding the perfect idea.

DIRECTIONS:

Divide your students into small teams of 3 - 4.

On index cards, have students for 3 minutes brainstorm as many ideas (not solutions) as they can related to the driving question, each idea on a separate index card.

Next, have groups turn all the cards upside down on the table and draw just three random cards from their pile of ideas. Give students 12 minutes to develop a concept that utilizes all three ideas.

Once done, have each group discuss or share/present their ideas with the rest of the students for 3 minutes.

