

In order to save fuel, an airline executive recommended the following changes in the airlines' largest jet flights:

- a. Restrict the weight of personal luggage
- b. Remove pillows, blankets, and magazines from the cabin
- c. Lower flight altitudes by 5 percent
- d. Reduce flying speeds by 5 percent.

Research the information necessary to calculate the approximate kinetic and potential energy of a large passenger aircraft. Which of the measures described above would result in significant savings? What might be their other consequences? Summarize your conclusions and show your calculations in a presentation or report.