Out of our four tests my lab partner and I found that changing the temperature is much more effective than increasing the surface area. This is most likely because the increase in temperature causing the particles to separate at a faster rate than increasing the surface area. In terms of sources of error we probably let some of the alka seltzer tablet pieces remain in the mortar when we poured it into the water. We also weren’t entirely sure when some of the reactions finished so our times where most likely off.