**AP Statistics**

**Around the World in 80 Tosses…**

Activity guidelines for teacher-

1. Pose the question to the class – How much of the Earth’s surface is covered with water?
2. Take the first answer as the “claim”, which will be discussed during the notes.
3. Then pose the question to the class – Do you agree with (whoever made the claim)? If not, do you think (whoever made the claim) is too high or too low? This will be the alternative hypothesis during the class notes.
4. Have each student place a dot on the center of the thumb of their right hand.
5. Toss the globe to a random student and ask them to report whether or not their “thumb dot” is touching land or water.
6. Record a frequency table on the board for water versus land as the students randomly toss the globe to each other throughout the room.
7. Collect at least 80 observations. (should result in *np* and *n*(1-*p*) both being > 10).
8. Use the data from the activity throughout the notes for the basics of hypothesis tests.