Names: _____

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Group Activity 10   **Due:** In class, September 29th

1. Why is the fissionability parameter x twice as sensitive to the liquid drop model parameter describing the surface term of binding energy a_s as compared to the Coulomb term a_c?

2. For a fixed Z, how should the spontaneous fission half-life to change for increasing A? Why?

3. Which nucleus would generally have higher kinetic-energy fission fragments, ^{252}Cf or ^{235}U? What's the ratio of TKE? Keep in mind the shell effects on the fragment mass distributions.