

## Enthalpy Costs Card Game Questions—KEY

1. What is the calculation for formal charge?
2. Fill out the table below to give each atom a formal charge of zero.

Atom	Bonds	Lone Pairs	Example(s)
C			
N			
O			
F			
Cl			
H			
Br			

3. Explain what you are doing (as far as energy goes) when you are breaking bonds and making bonds.
4. Is it better to make a molecule from your hand or to modify an existing molecule during your turn? Why?
5. Why do atoms release energy when they form bonds with other atoms?
6. Why is a low score (more negative) more desirable than a high score in this game?
7. Describe a good strategy for making the most stable molecules in the card game.