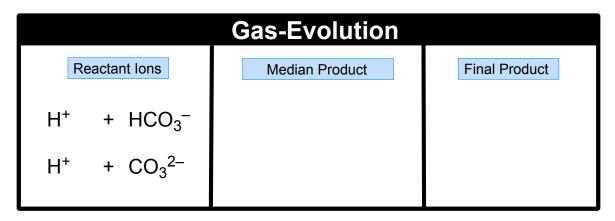
CONCEPT: GAS EVOLUTION EQUATIONS (SIMPLIFIED)

- A Gas Evolution Equation is a molecular equation that involves the creation of CO₂ gas.
 - ☐ The gas is formed once *median products* lose a water molecule.
 - □ **Median Product:** The form a product holds before it fully converts into its final product form.
 - Final Product = Median Product _____.



EXAMPLE: Predict whether a chemical reaction occurs and write the balanced molecular equation.

STEP 1: Break up Reactant 1 and Reactant 2 into their ionic forms.

- STEP 2: Swap Ionic Partners by remembering that opposite charges attract.
 - □ Apply the rules for combining ions based on the numerical values of their charges.
- **STEP 3:** Identify the *Median Product* or gas that forms from the gas evolution equation.
 - □ Except for hydrogen sulfide, break it up into water and gas.
- **STEP 4:** If necessary, balance your molecular equation by placing the correct coefficients in front of each molecule.

CONCEPT: GAS EVOLUTION EQUATIONS (SIMPLIFIED)

PRACTICE: Predict the products formed from the following gas evolution equation.

____ KHCO₃ (aq) + ____ HCI (aq) -----