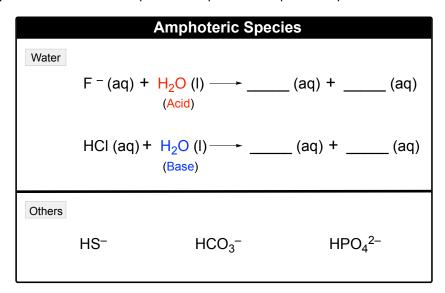
CONCEPT: AMPHOTERIC SPECIES

- Amphoteric (Amphiprotic): A substance that can act as an acid or base based on its ______.
 - □ Acid: a substance that _____ an H⁺ (proton) when dissolved within a solvent.
 - □ Base: a substance that _____ an H⁺ (proton) when dissolved within a solvent.
 - □ Many amphoteric species possess an H⁺ at the beginning of the compound and a _____ charge at the end.
 - **Exception**: ______ is a prime example of an amphoteric species.



EXAMPLE: Which of the following compounds is amphoteric when placed in water?

a) PO_3^{3-}

b) HIO

c) HSO₃-

d) HNO₃

e) NH₃

PRACTICE: Which of the following species is amphiprotic within an aqueous solvent?

a) Br -

b) HC₂H₃O₂ c) SO₄²⁻

d) HSe -

e) H₃O+