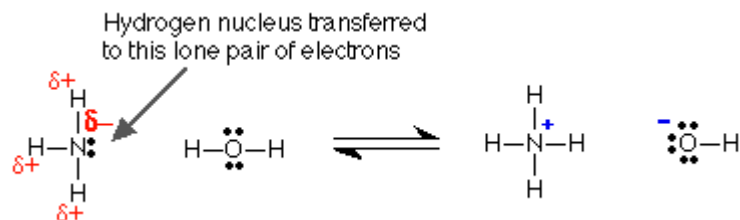


Chemguide – questions

ORGANIC BASES

1. Ammonia is a weak base.

The following diagram comes from the Chemguide page:



- a) Use the diagram to explain in words why ammonia is basic.
- b) What is a *weak* base?
2. Methylamine is an example of a primary amine, in which one of the hydrogens in ammonia is replaced by a hydrocarbon group.
- Why is methylamine, CH_3NH_2 , a stronger base than ammonia?
3. Phenylamine is an example of an aromatic primary amine where the $-\text{NH}_2$ group is attached directly to a benzene ring: $\text{C}_6\text{H}_5\text{NH}_2$.

Why is phenylamine a much weaker base than ammonia?