

★ **HIGHER TIER ONLY** content is highlighted in blue. Foundation students — focus on the un-highlighted sections.

Natural Selection Steps

1. Variation	Exists in population due to mutations and sexual reproduction
2. Competition	For resources — food, water, space, mates
3. Survival	Best-adapted individuals survive and reproduce MORE
4. Inheritance	Advantageous alleles passed to offspring
5. Evolution	Over time, beneficial alleles become common in population

■ **Exam Tip:** Restriction enzymes CUT DNA. Ligase JOINS DNA. Learn both — they often appear in exam questions about genetic engineering!