

REPRODUCTION

1. General

- fertilization may be external or internal in aquatic arthropods
- always internal in terrestrial species

2. Sperm Transfer

- sperm transfer usually by mating or copulation
- females usually store the sperm in a seminal receptacle

3. Spermatophores

a. General

- many arthropods transfer sperm in packets
- an adaptation for sperm transfer on land
- male abandons spermatophore for female to find or may place it in the female gonopore

4. Copulation

- present in many aquatic arthropods (crustaceans), also in derived terrestrial forms
- often with courtship and behavior patterns
- anatomical equipment for internal fertilization by copulation
- male inserts an intromittent organ into the reproductive tract of the female
- deposits sperm or spermatophores into her seminal receptacle