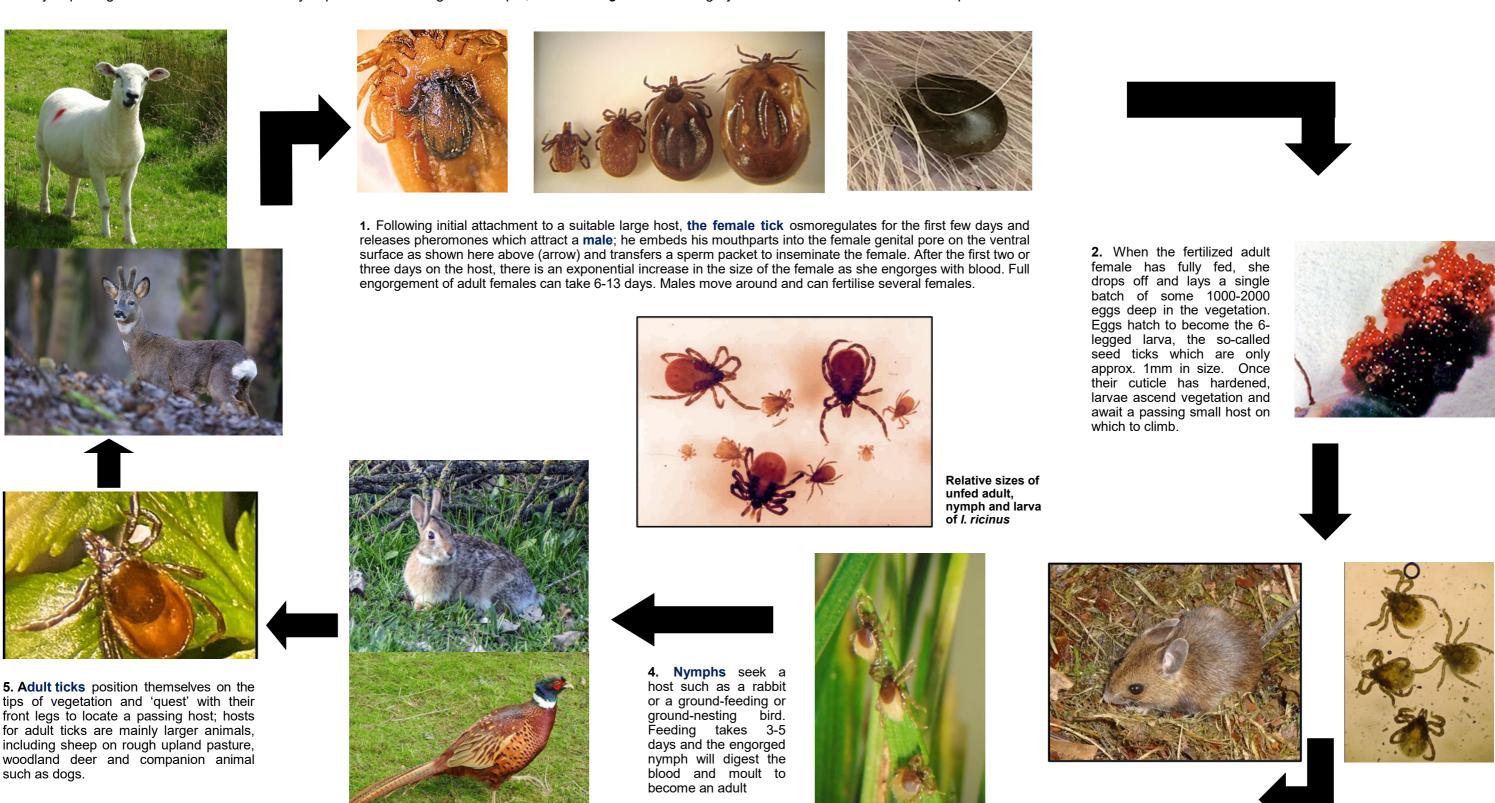


THE LIFE CYCLE OF THE SHEEP TICK IXODES RICINUS

Ixodes ricinus is the most widespread tick species across Europe, found in humid, dense ground layer habitats such as rough grassland, moorland and woodland. The three parasitic stages – the larva, nymph and adult - are most active from April to May; adults tend to diapause in mid summer but reappear in early Autumn however the precise pattern of seasonal activity is highly variable, influenced by habitat, climate and host availability. *Ixodes ricinus* is a 'three-host' tick which means that they seek a host, feed and drop off to moult into a new stage in the environment. Thus the active stages of this generalist species feed on a separate host and are found free living between feeding periods. In the UK, each stage feeds for just a few days per year and the full life cycle from egg to adult tick takes three years. *Ixodes ricinus* is an important disease vector, involved in the transmission of a large variety of pathogens of medical and veterinary importance including for example, *Borrelia burgdorferi* causing Lyme borreliosis and tick-borne encephalitis virus.



3. Larvae seek hosts such as rodents and other small mammals or birds. Feeding takes 3-5 days and blood-engorged larvae then drop off the skin and shelter in grass where they moult to the nymph stage, which is approx. 2.5mm in size. Once the cuticle has hardened, the nymph is ready to feed.