



Body Structure of Birds



SKIN AND COLOR

Epidermal coverting of **feathers** and **leg scales**



No secretory glands on the skin

Oil gland only found at the base of tail

Unlike other vertebrate animals THE EPIDERMIS AND DERMIS ARE QUITE THIN AND LESS KERATINISED

STRUCTURE DERIVED FROM INTEGUMENT

- Beak
- Nails
- Feather
- Scales on beak and hindleg

EPIDERMAL ORIGIN

BEAK: Many different beak shapes are seen depending on the variety of food. **Functions**

- Catching, transporting, chopping and eating food
- ➢ Fix feather
- Nesting
- Protection against enemies

Nails; special shaped scales for protecting the fingertips. In many nails, as the upper part grows faster, an inwardly curved structure arises. **Functions:** Used for disinterment; tearing; fighting; cleaning feathers

Bird Feathers



Bird Feathers



Functions of Feathers

Keeping the body temperature constant

Providing

flight

Protection of the body from external factors

Increasing the ability to stay on the water surface in aquatic birds

SKELETON SYSTEM



Beak Types



Types of Bird Feet

