

Epidermis – Ectoderm
Dermis – Mesoderm

Notes: Third week

- Third week (trilaminar germ disc – **all form from the epiblast**)
 - Ectoderm
 - Mesoderm
 - Endoderm
- **Mesoderm divides into:**
 - Paraxial (somites)
 - Intermediate (urogenital system)
 - Lateral plate (body wall; intraembryonic coelomic cavity forms in this layer)
 - Extraembryonic (chorion)
- **Somites divide:**
 - Sclerotomes
 - Cartilage & bone, including vertebral column
 - Myotomes
 - Skeletal musculature
 - Dermatomes
 - Dermis
 - Mesoderm also gives rise to:
 - Vascular system: heart; blood & lymph vessels;
 - Spleen
 - Cortex of adrenal gland

Notes: Summary of the third week of development:

- Primitive streak
- Notochord formation
- Neural tube formation (~ 4w)
- Neural crest formation (~4w)
- Somite formation
- Formation of intraembryonic coelom
- Formation of blood and blood vessels (5/40)
- Completion of chorionic villi formation (*primary chorionic villi becomes secondary chorionic villi as it acquires mesenchymal core*)