- Causes the production of **melanin**
- The thyroid gland is on the anterior surface of the trachea
 - Highly vascularized
 - Supplied by the **superior thyroid artery** (from the external carotid artery)
 - Supplied by the **inferior thyroid artery** (from the thyrocervical trunk)
 - Made of two lobes connected via an **isthmus**
 - Consists of thyroid follicles
 - This is the only gland that stores its hormone products

for slide 53 just know the anatomy of the things that surround the things that are labeled

Thyroid gland

- Thyroid follicles manufacture thyroid hormones
 - Do not need to know below
 - Follicles are lined with simple cuboidal epithelium and T thyrocytes (follicular cells)
 - Follicular cells secrete thyroglobulin into the follicle
 - Follicular cells transport iodine into the follicle
 - The combination of iodine and the colloidal material within the follicle results in the formation of the the object Enthones e thyroid gland nin (CT)

 Targets osteoclasses • The combination of iodine and the colloidal material

Hormones of the thyroid gland

Calcitonin (CT)

Targets osteoclast o

Cates the rease in blood cal arm of concentration by:

Ninturating calcium of the time we repackage it and send it back into the circulation

- Calcium located in sarcoplasmic reticulum of skeletal muscles and the heart, and is stored in the terminal cisternae within the sarcoplasmic reticulum, calcium causes all
- Inhibiting osteoclast activity (therefore calcium ions do not leave the bones to enter the blood)
- Thyroxine (T₁)-looking at in blood to check thyroid function
 - Targets general cells
 - Causes an increase in metabolism
- Triiodothyronine (T₃)-looking at in blood to check thyroid function
 - Targets general cells
 - Causes an increase in metabolism

**As you get older normal for metabolism to drop

hypothyroidism(low hormone levels, gain weight) and hyperthyroidism(high hormone levels, lose weight) exist though as well

People who are putting on a lot of weight look at T3 and T4

When there is an issue with T3 and T4 you have to increase hormone levels within body**

Thyroid gland