Bone Development!

Vocab

Osteogenesis

Ossification

Membrane bone

Endochondral bone

Intramembranous ossification

Endochondral ossification

Primary ossification center

Perichondrium

Periosteum

Bone collar

Osteoblasts

Diaphysis

Periosteal bud

Osteoclasts

Hypertrophy

Secondary ossification center

**Formation of the bony skeleton**

What does the bone made by intramembranous ossification develop from?

What does the bone made by endochondral ossification develop from?

Why does it make sense to develop bone later in development?

Will this little section talk about bone development after birth?

**Intramembranous Ossification**

What types of bone form from this process?

Draw and describe the general four steps of intramembranous ossification.

1

2

3

4

**Endochondral Ossification**

What does this process use to form bone?

Where does this ossification begin?

What causes mesenchymal cells to differentiate into osteoblasts?

Describe and draw the 5 steps of ossification

1

2

3

What does a periosteal bud contain?

What function to the osteoclasts serve?

4

Why do we say ossification chases cartilage?

5

Where does hyaline cartilage remain after secondary ossification?