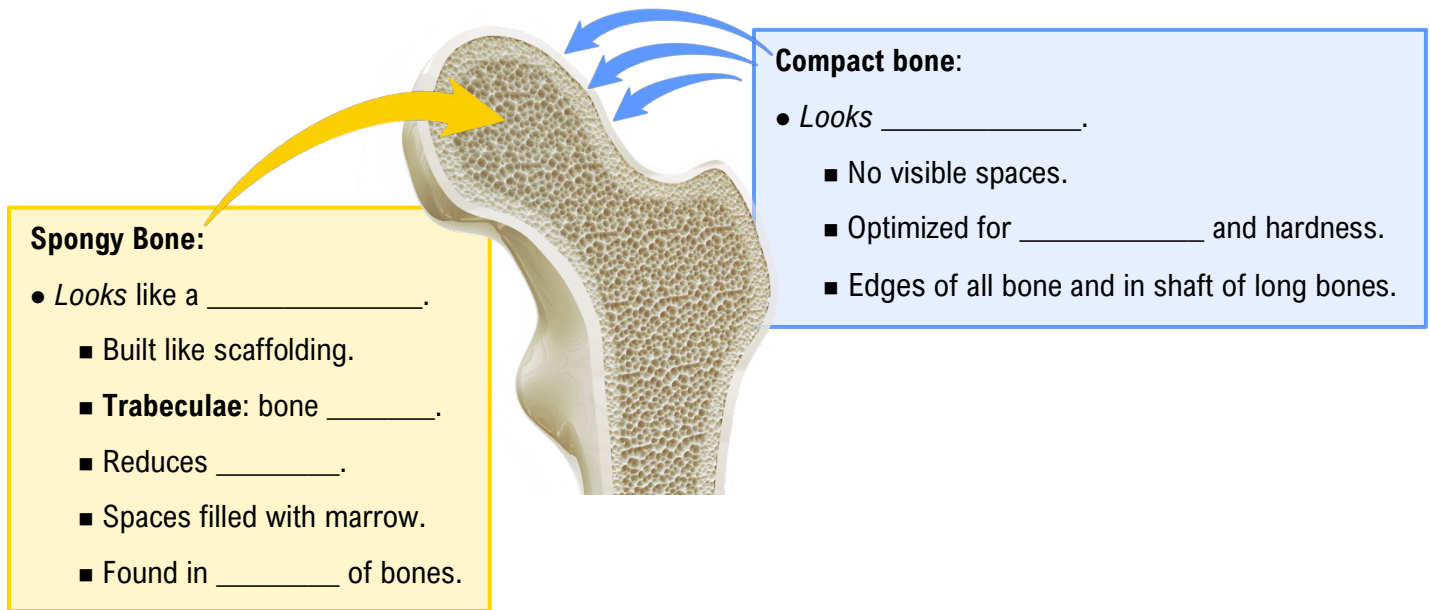
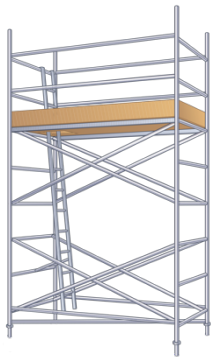


TOPIC: GROSS ANATOMY OF BONE: COMPACT AND SPONGY BONE

- 2 main structural arrangements of all bone:



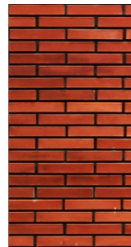
EXAMPLE: Spongy bone and compact bone are sometimes compared to scaffolding and a brick or concrete wall. Explain this analogy.



Scaffolding

Type of bone: _____

Reasoning:



Brick wall

Type of bone: _____

Reasoning:

PRACTICE: If a person's spongy bone were all replaced by compact bone, how may that affect the function of their bones and skeleton?

- a) The skeleton would be stronger but also heavier.
- b) The interior of the bones would lose their softness meaning breaks would happen more easily.
- c) The skeleton would have less room for marrow meaning the function of joints would be affected negatively.
- d) Long bones would become heavier, but other bones would not be affected.