The UbD Template, Version 2.0

Time Frame: 3 Weeks	Unit Title: Skeletal System	Course Name: Grade 7 Science	
Stage 1 - Desired Results			
Established Goals	Transfer		
What content standards will this unit address?	Students will be able to independently use their learning to identify the structure and function of the skeletal system.		
MS LS1-3 Use argument supported by evidence for how the body is a system of interacting	Confidence in making connection between systems Research skills-citing evidence to support beliefs Engaging in arguments using evidence		
subsystems composed of groups of cells	Meaning		
of groups of cells  What habits of mind and cross disciplinary goal(s) - for example, 21st century skills, core competencies - will this unit address?  • System and System Models  • Science is a human endeavor	UNDERSTANDINGS Students will understand that Bone structure and function  What specifically do you want students to understand? Healthy bones depend on what we eat and will identify which foods are beneficial and why.  What inferences should they make? That poor food choices have an effect on the health of bones	ESSENTIAL QUESTIONS Students will keep considering How is the structure of bone related to its function?  What thought-provoking questions will foster inquiry, meaning-making, and transfer? What changes occur in bones as you age? How does the skeletal system help the body to maintain homeostasis? What are the strengths and limitations of the body's joints? How do problems with the skeletal system affect the entire body?	
		Ultimately: How do the human body systems function together/	

## **Acquisition**

Students will know...

The human body systems are interacting systems composed of cells. And will be able to explain the structure and function of the skeletal system.

What facts and basic concepts should students know and

be able to recall?

composition and make up of cells

Number of bones in the body

Shape of bones advantageous to their function Nutrition contributes to bone health

Vocabulary:

skeletal

bone

skeleton

internal skeleton

outer covering

external skeleton

joint

fluid

ligament

tendon

cranium

cartilage

Students will be skilled at:

Investigation through research of bone shape and function

Constructing Explanations: relating the connections between shape of bones and structure,
Bone health and its impact of the other body systems

Engaging in discussions using evidence:

Changes in bones during aging

Proof of homeostasis

Strengths and limitations of the bodys' joints

What discrete skills and processes should students

be able to use?

Observation

Classification

Measurement

Predictions

Interpretation

Communication

**Drawing Conclusions** 

radius femur ulna scapula sternum pelvis clavicle humerus rib marrow vertebrae mandible compact bone skull spongy bone tibia patella fibula kneecap metatarsals phalanges carpals

tarsals	
pelvis	
maxilla	
spine	

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