

- **Describe functions of the skeletal system.**

The skeletal system is the central framework of the body. The skeletal system plays a pivotal role in the body. The skeletal system supports the structure of the body and it also gives the body its shape. The skeletal allows movement of the body as a whole and individual part. Bones enable movement of the body and serve as a point of attachment to the muscles (Biga et al., 2022). The skeletal protect the internal organs within the skeletal system from injury. For example, the skull protects the brain, heart and lungs are protected by the ribs (Cleveland Clinic, 2019). The skeletal system also produces blood cells. Some bones in the skeletal have red bone marrow. The red bone marrow is what produces blood cells; red blood cells, white blood cells and platelets. Pelvis, sternum and clavicle are examples of bones that contain marrow. The skeletal system also stores mineral and fats. Bones are made of minerals and store calcium and phosphorus. It stores the minerals when the levels are too high in the blood and releases the minerals when the body needs them. The skeletal systems also store fats and release the fat for energy.

References:

Biga, L., Dawson, S., Harwell, A., Hopkins, R., Kaufmann, J., LeMaster, M., Matern, P., Gram, K., Quick, D., Runyeon, J. (2022). *Anatomy & Physiology: The Functions of the Skeletal System*. Retrieved February 14, 2023 from <https://open.oregonstate.education/function-of-the-skeletal-system/>

Cleveland Clinic.(2019,November 19). *Skeletal System:What does the skeletal system do?* Retrieved February 14, 2023, from <https://my.clevelandclinic.org>

What happens when a bone breaks

When a force is exerted on a bone, and the force is greater than what the bone can handle, then it will result in a bone fracture. Depending on the particular bone and severity of the fracture, one can feel pain, swelling, bruising, bleeding around the site of injury, deformity and not being able to use the injured part.

References:

Better Health. (2022, October 25). <https://www.betterhealth.vic.gov.au/health/conditions-and-treatments/bone-fracture>.