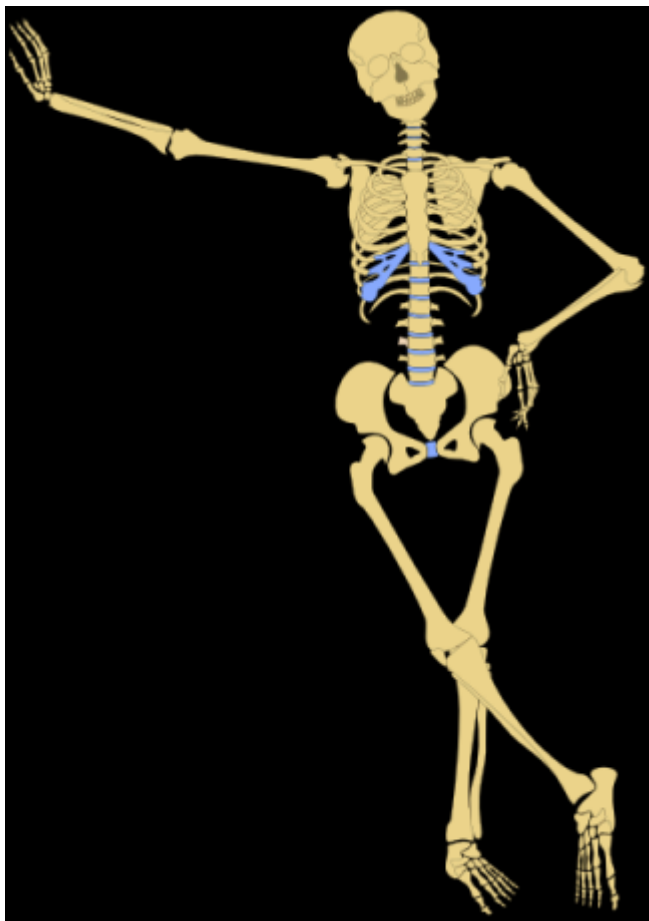




SKELETAL SYSTEM



- A. bone, bone tissue, joints
1. types of bones
 - a) long
 - b) short
 - c) flat
 - d) irregular
 2. bone calcium storage
 3. bone structure
 - a) bone matrix
 - b) bone marrow
 4. joint structure and cartilage
 - a) types of joints
 - b) types of cartilage
 - c) ligaments and tendons
(vazivo a šlachy)
- B. axial skeleton
1. skull, face, inner ear
 2. chest
 3. vertebral column/spine
(páteř, obratle páteře)
- C. appendicular skeleton
1. bones of the shoulder
 2. bones of the upper extremity
(končetiny)
 3. bones of the pelvis
 4. bones of the lower extremity

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Tento projekt je spolufinancován Evropským sociálním fondem a státním rozpočtem České republiky.



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

1. Listen to the recording and put the items in correct order.

<http://videos.howstuffworks.com/hsw/25404-human-body-the-skeletal-system-video.htm>

protection of various organs
ligaments
arthroscopic surgery
cartilage
responsible for movement

joints
bone marrow
reservoirs for important minerals
support of the soft tissues

2. Listen again and complete the gaps

- a. The skeletal system _____ a number of important roles in the body.
- b. The most obvious are the support of the soft tissues of the body, the protection of various organs like the brain by the _____, and the heart, lungs and other organs by the _____ cage.
- c. The skeletal system in _____ with the muscle system is responsible for movement.
- d. Tough bands of tissue called ligaments, as well as other connective tissues, _____ bones _____ at moveable joints.
- e. At the ends of the bones there is a _____ smooth surface called cartilage.
- f. The cartilage is lubricated by a special body _____.
- g. Arthroscopic surgery _____ doctors _____ go in and repair joint tissues.
- h. The bones of the skeletal system also _____ two other critical functions, they _____ reservoirs for important minerals.
- i. Blood cells are _____ in the bone marrow.

3. Read the information on the skeletal system below. Then work in pairs and describe the skeleton and its role in the body. The expressions in the grey boxes are at your disposal.

Bones

- provide storage for calcium
- are the formation site for red and white blood cells,
- provide structural support and protection for the body's internal organs

Calcium

- is stored primarily in bones and is released into the blood in response to hormones.
- is needed for one development, blood clotting, normal muscle and nerve activity,

Bone marrow

- is the site of red blood cells, white blood cell and platelet production (pleitlit)

Joints facilitate movement between bones

Cartilage is a type of dense connective tissue

Ligaments and tendons connect muscle to bone or bones together

The axial skeleton

- provides structural support for the body
- provides attachment points for ligaments and muscles
- protects the brain, spinal cord and major organs of the chest.
- includes bones of the skull, inner ear, chest and spinal column

The appendicular skeleton

- is connected to the axial skeleton
- protects the organs of digestion, excretion and reproduction

Bones of the shoulder: The shoulder joint provides a connection between the chest and the arm.

Bones of the pelvis: The pelvis is located at the base of the spine and contains two sockets for articulation with the lower extremities.

VERBS

be composed of
 consist of
 be made up of
 make up
 contain
 include
 be linked to
 have
 divide into
 arrange

extend from ... to ...
 extend between
 lie
 enclose
 protect
 be connected by
 connect ... to ...
 allow to
 cushion
 be bound together

bind together
 be located
 span
 be separated by
 be attached to
 control movement
 support
 join ... to ...
 form st
 provide attachments to

NOUNS

type
 kind
 sort
 category

component
 feature
 structure
 system

group
 criterion,
 pl.criteria

COLLOCATIONS

at the lower end of ... there are ...
 above ... on either side are
 down the sides of
 along the sides of
 its function is to
 be the centre of
 at the back of
 similar to
 different from
 the same as
 the front surface of

HOMEWORK

The following "odpovědníky" are available in IS (including the information on scoring).
 These tasks are compulsory.

https://is.muni.cz/auth/el/1431/jaro2010/JAB02/odp/HB_Skeletal_system_test.qref

https://is.muni.cz/auth/el/1431/jaro2010/JAB02/odp/HB_Skeletal_system_Video.qref

Sources:

<http://www.rapidlearningcenter.com/biology/> Accessed Feb 6, 2010

<http://www.innerbody.com/image/skelfov.html> Accessed Feb 10, 2010

http://openclipart.org/people/metalmarius/metalmarius_Human_Skeleton%28Outline%29.png

<http://videos.howstuffworks.com/hsw/25404-human-body-the-skeletal-system-video.htm> Accessed Feb 17, 2010

