

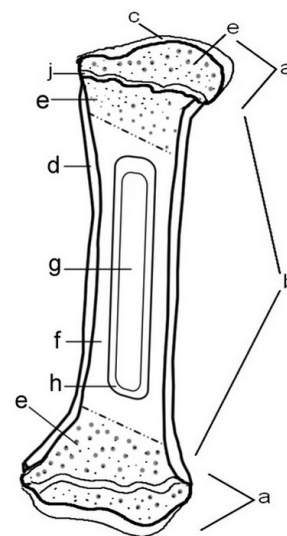
# Skeletal system worksheet

## Reading revision

### Bones anatomy

- 1 medullary cavity
- 2 endosteum
- 3 compact bone
- 4 articular cartilage
- 5 epiphysis
- 6 cancellous (spongy) bone
- 7 epiphyseal line
- 8 periosteum
- 9 diaphysis

- a) It has a thin layer of compact bone, while internally the bone is cancellous. It is capped with articular cartilage.
- b) The shaft of the long bone. It has compact bone with a central cavity.
- c) It is found on both ends of long bones. It is slippery, smooth and bloodless.
- d) It a vascular, sensitive life support covering the bone.
- e) It is found mainly within the epiphysis and has a textured appearance.
- f) It is a dense bone with a repeated pattern arranged in concentric layers of solid bone tissue.
- g) It serves to lighten bone weight and provide space for marrow.
- h) This tissue lines the medullary cavity of bone.
- i) Also called the growth plate, it is found on both ends of the long bone.



## Bones pathologies

### 1. Fractures

A fracture is a break in a bone. There are some types of fracture, match them with the definition and picture.

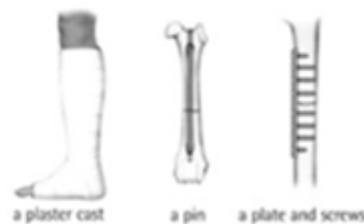
- |                    |  |
|--------------------|--|
| 1. open (compound) | a) There is a break in the skin.                   |
| 2. comminuted      | b) The bone is bent. It occurs mainly in children. |
| 3. displaced       | c) The bone is broken into several pieces.         |
| 4. greenstick      | d) The broken pieces are separated.                |
| 5. impacted        | e) The broken pieces are pushed together.          |



### 2. Treatment of fractures: Word Formation. Complete the correct form of the word.

Example: Most people find the idea of fame attractive 0 /attract/.

When the fragments of a \_\_\_\_\_ 1 /break/ bone heal and join together, they unite. \_\_\_\_\_ 2 /unite/ may be promoted, or helped, by reducing the fracture – replacing the fragments in their \_\_\_\_\_ 3 /anatomy/ position if they are displaced. After \_\_\_\_\_ 4 /reduce/, \_\_\_\_\_ 5



/excess/ movement of the bone is prevented by \_\_\_\_\_ 6 /fix/ – either external, for example a splint or plaster of Paris cast, or internal, for example a pin or plate and screws. A displaced fracture which is not reduced may result in \_\_\_\_\_ 7 /unite/- incomplete or incorrect union.

## Wrist injuries

### Lead-in

- 1 Have you (or a person you know) ever suffered a wrist injury? What happened?
- 2 What do you think can cause pain in your wrist?

### Tasks

A What is the purpose of the video? Can you identify any key words?

B Decide if these statements are true or false.

- 1 Thousands of patients will profit from the new discovery.
- 2 A completely new type of ligament injury has been found.
- 3 Phil Jacobson has developed dull pain in his wrist following an ice-hockey incident.
- 4 A series of X-ray and MRI images helped identify the spot of the pain in Phil's wrist.
- 5 The source of wrist pain has not been identified so far only in a few patients.
- 6 Doctor Burger's diagnostic test is not complicated.
- 7 The pain in the wrist is due to an injury of the UT ligament.
- 8 Doctor Burger identified a type of wrist injury which he calls 'split-torn'.

C Fill-in the missing words:

- 1 The pain is caused by \_\_\_\_\_ and \_\_\_\_\_ of the ligament.
- 2 Doctor Burger fixes the injury by \_\_\_\_\_ away the damaged tissue and \_\_\_\_\_ the sides back together
- 3 Researchers will have to find out if this type of injury affects other areas of the body, for example the \_\_\_\_\_ or \_\_\_\_\_
- 4 According to Doctor Burger, similar injuries can be \_\_\_\_\_

D Discussion

### Medical examination documentation example

| SURNAME   | FIRST NAMES |                |
|---|-------------|----------------|
| AGE   | SEX         | MARITAL STATUS |
| OCCUPATION  |             |                |
| PRESENT COMPLAINT                                 |             |                |
| O/E<br>General Condition obese, 1.65m tall, 85 kg |             |                |
| ENT wax ++ both sides                             |             |                |
| RS NAD  |             |                |
| CVS P 80/min reg. BP 180/120                      |             |                |
| GIS HS normal                                     |             |                |

|   |
|---|
| GUS   |
| CNS Fundi normal                                    |
| IMMEDIATE PAST HISTORY                              |
| POINTS OF NOTE                                      |
| INVESTIGATIONS<br>Urine (-ve) for sugar and albumen |
| DIAGNOSIS<br>?hypertension                          |
| MANAGEMENT<br>See 1/52                              |