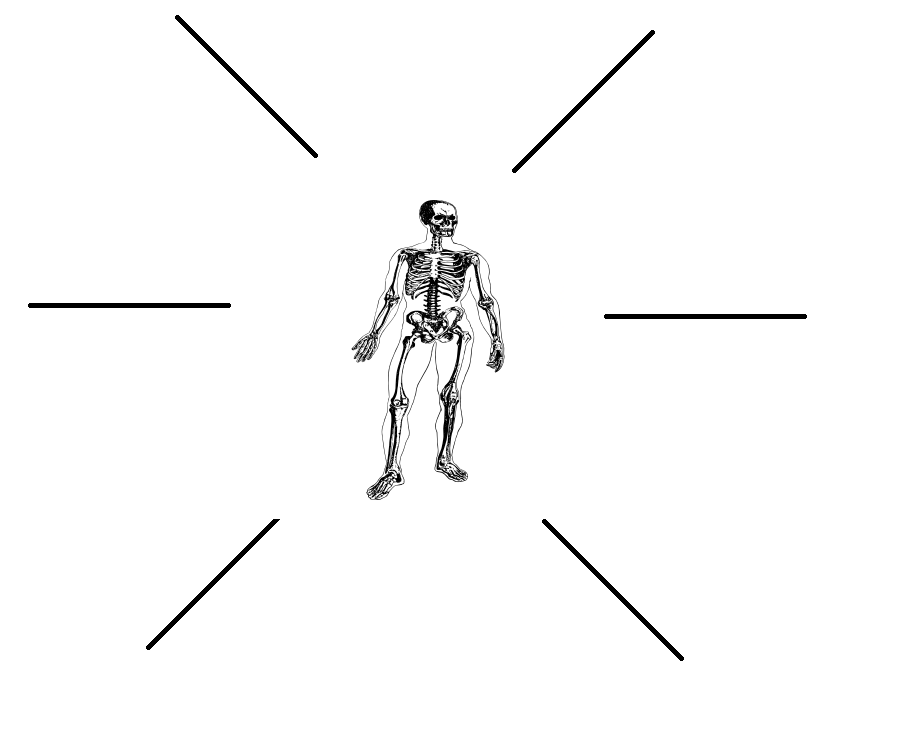
**The human body (Body Worlds Exhibition)**

**Before the movie:**

1. **What do you think of scientists using the bodies of the dead for scientific purposes? Fill in the mind map.  - **

****

(clipart adapted from <https://openclipart.org/detail/286972/skeleton-in-a-body>)

1. **What could be the pros and cons of using the bodies of the dead for scientific purposes? Fill in the table.**

** - **

|  |  |
| --- | --- |
| PROS | CONS |
|  |  |

1. **Translate these words and phrases into your own language. Ask your friends or use a dictionary to help you.**

** - **

odorless – bez zapachu

invaluable – nieoceniony

a layman – laik

to highlight – uwydatnić, wyróżnić

craftsmanship – rzemieślnictwo

complexity – złożoność

to halt – zatrzymać, zahamować

to decay – rozkładać się

formaldehyde – formaldehyd

arterial system – układ krążenia

a sinew *–* ścięgno

to dilute – rozcieńczać

a tissue (*in a body*) –tkanka

impregnation – impregnacja

a cell – komórka

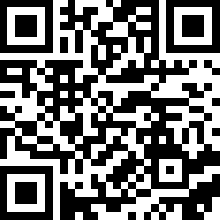
saleable –chodliwy (łatwy do sprzedaży)

a workshop – warsztat

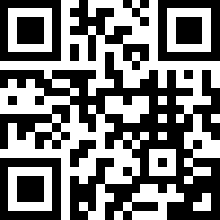
**If you need English definitions you can look them up in OALD 😊**

 [www.oxfordlearnersdictionaries.com](http://www.oxfordlearnersdictionaries.com)

**If you prefer to search for Polish equivalents, use:**

[pl.bab.la/slownik/angielski-polski](http://pl.bab.la/slownik/angielski-polski) 

**or**

[www.diki.pl](http://www.diki.pl) 

1. **Mark the new words with a star** 
2. **Match the words from the list to the human organs they represent. Use a dictionary if necessary.  - **

a brain / a heart / lungs / kidneys / a pancreas / a small intestine / a large intestine / a bladder / a stomach / a liver / a spleen

1 a heart

11 a brain

**Obraz zawierający niebo, stół, wewnątrz

Opis wygenerowany automatycznie**

2 lungs

10 a stomach

9 a spleen

8 a pancreas

7 a small intestine

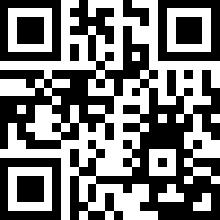
6 a bladder

5 kidneys

4 a large intestine

3 a liver

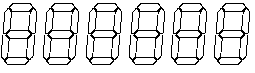
(clipart adapted from <https://openclipart.org/detail/280284/human-body>)

**BODY WORLDS & The Art of Plastination:** [**https://youtu.be/4UjDDp8Mpcg**](https://youtu.be/4UjDDp8Mpcg)

**During the movie:**

1. **Are the bodies shown in the exhibition real?**a) Yes. b) No. c) I don’t know.
2. **How much time is required to prepare a full body for plastination?**

800

****hours

1. **Order the stages of plastination, using the provided timeline.**
2. The specimen is hardened with a special gas.
3. The body is placed in a desired pose.
4. The skin and fat are removed.
5. A solution of formaldehyde is introduced into the body’s arterial system.
6. The process of forced vacuum impregnation is performed.
7. Water and fat in the body is replaced by a solvent, using a cold acetone bath.

D + C + F + E + B + A

1. **What’s a sheet plastination? Describe.**

It’s cutting thin transparent slices either through or along the body, to show how the various positions of anatomical structures relate to each other and to view the individual deviations.

1. **Are animals also plastinated?**

a) Yes. b) No. c) I don’t know.

1. **Who invented the plastination technique?**
2. Gunther von Haga
3. Gunther von Hagens
4. Gunther von Plasti
5. **Where was the plastination technique invented? Mark the country on the map.**



(map adapted from <https://openclipart.org/detail/6734/europe-outline>)

**After the movie:**

1. **Answer the following questions. Use the Notes section (provided at the bottom of the page) if necessary.  - **
   1. How did you feel when you saw the bodies?
   2. Do you think that it is ethical to show plastinated human bodies on an exhibition? Why / Why not?
   3. Would you be willing to donate your body for plastination after your death? Why / Why not?
2. **What have you learnt during the lesson? Fill in the mind map.**  - 

**NOTES**

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