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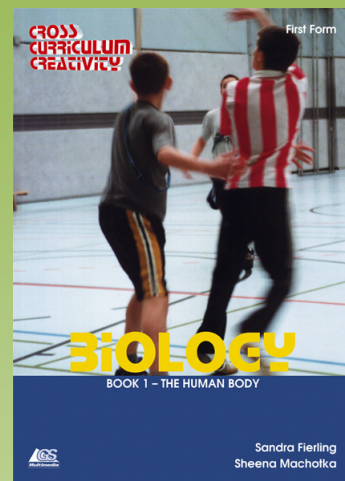
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**Auszug aus:**

*Cross Curriculum Creativity - Biology - Book 1: The Human Body*

Das komplette Material finden Sie hier:

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# Introduction

Welcome to Bilingual Biology. You will find information sheets for teachers, worksheets for your students, worksheets for quizzes and blank worksheets for your own ideas. There is a dictionary at the end of the book as well as solutions to the worksheets, where necessary.

This book is based on the Core Curriculum and you will find in it the information about the human body the children need to know in their first year of biology. Most of the worksheets are graded. You will therefore be able to individualize your lessons, giving out simple or more advanced worksheets to your students and/or making your own worksheets with the information provided.

Everyone teaches in their own particular style and we would just like to give you some ideas that we have found useful in our own situations. A bi-lingual vocabulary book can be a useful item for students to have. Another idea is to have this at the end of their biology notebook - although this is more temporary as they are constantly filling up their notebooks and having to acquire new ones. Especially in biology, vocabulary is important and necessary. Making posters for your class about biology in English is always a very nice activity and posters in the classroom certainly anchor the English presence in the room. You will also see an empty quiz chart at the end of the worksheets. We have used this to constantly revise the children's knowledge in a fun way. Asking each child one question per lesson/week, for example, doesn't take up much time and can be a valuable revision guide for the whole class.

We wish you and your students much fun and success in biology.

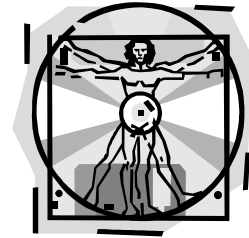
Sandra Fierling

Sheena Machotka



# The Human Body

## A Masterpiece of Design



### Information Sheet

All human bodies start life as a tiny cell - a fertilised egg - which grows to maximum size and physical strength after 18 to 25 years. Human beings differ in height, build, hair and skin colour.

The 50,000 million tiny building blocks (cells) in our bodies work without stopping until they die. Five million new cells are produced every second to replace old ones. About two-thirds of our body is water.

The human body has a **skeleton, organs, outer skin and specialised systems:**

**The digestive system:** (mouth, oesophagus, stomach, liver and intestines).

**The circulatory system:** (heart, blood vessels and blood). The heart pumps blood. Oxygen and nutrients are transported around the body and waste products removed.

**The nervous system:** (brain and nerves). It controls breathing, heartbeat and digestion.

**The muscular system:** Some of the 650 muscles in the body can be controlled at will; others work automatically.

**The skeletal system:** the bones, or framework of the body.

**The respiratory system:** (lungs, windpipe, throat and nose). Vital oxygen is breathed into the body.

**The urinary system:** The kidneys filter waste substances from the blood to form urine, which is stored in the bladder.

**The sensory organs:** The ears are the organs of hearing and balance, the eyes are our organs of sight.

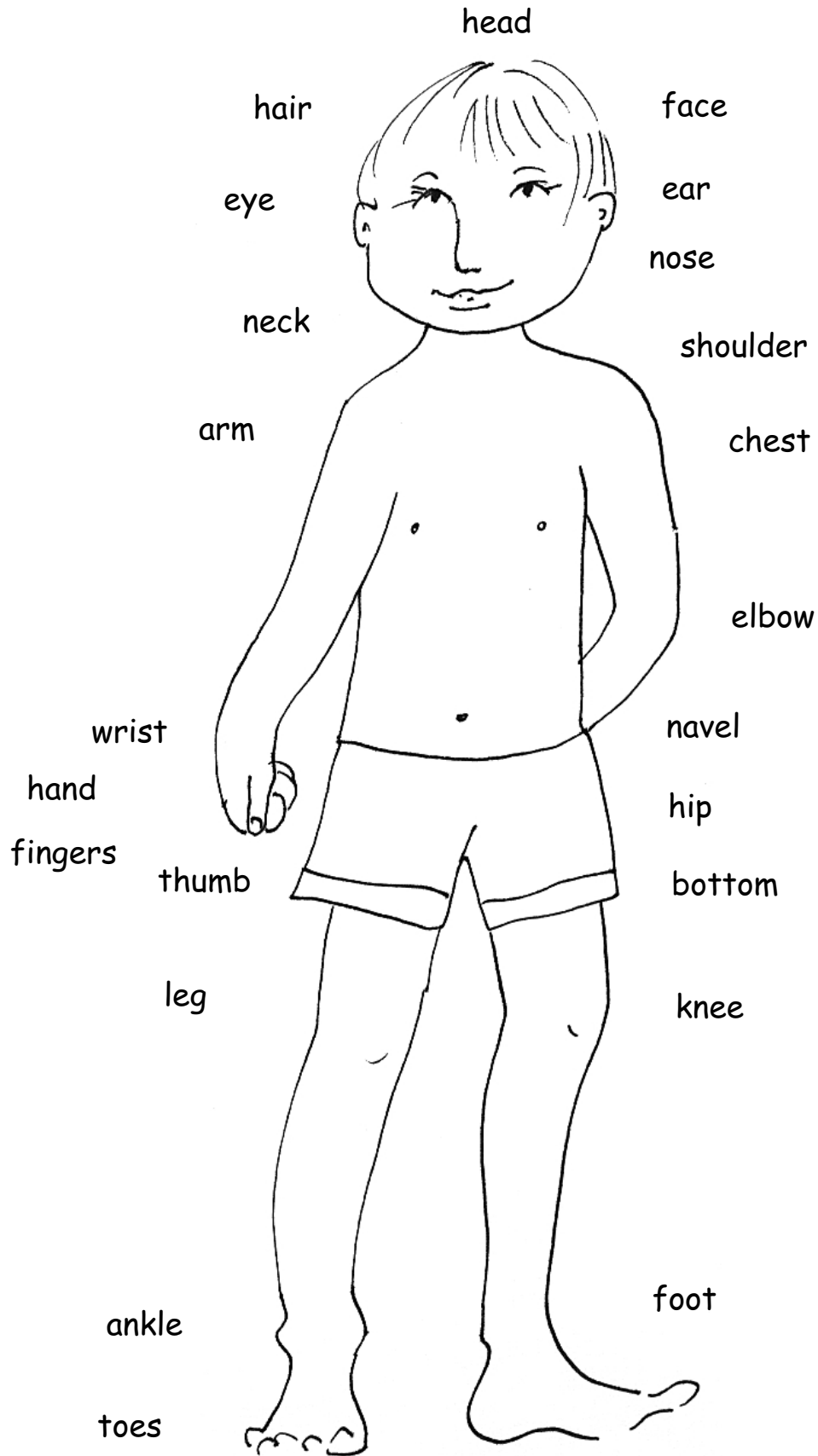
**The reproductive system:** The male sex organs are the testes and the penis, and the female sex organs are the ovary and the uterus (womb).

All these different systems work together, controlled by the **brain**. The body is covered and protected by **skin**. It keeps water and harmful bacteria out, and keeps body fluids in.



# Body Bits

The drawing below will show you a lot of body bits.

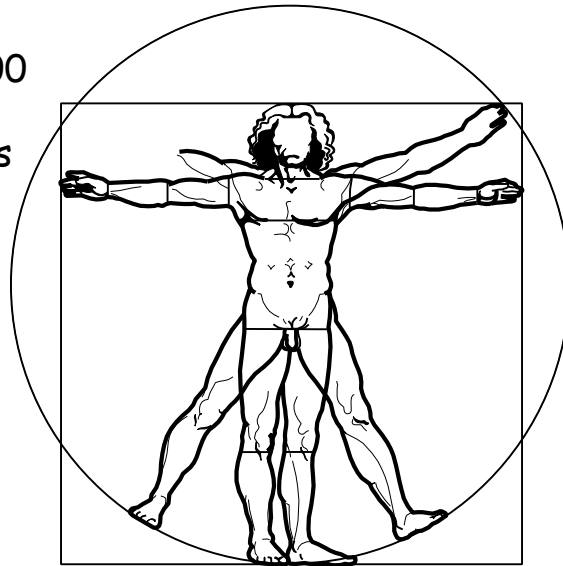




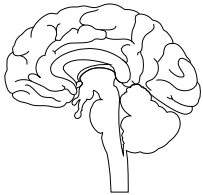
# The Human Body

The human body is a wondrous thing - here are some body facts:

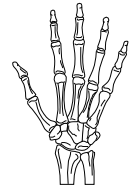
There are over 200  
The largest bone is  
and the smallest



bones in your body.  
your thigh bone (femur)  
bone is in your ear!



Your hand has 27 bones in it and 19 joints!



Your brain has about 14,000 million cells and weighs 1.3 kilos.

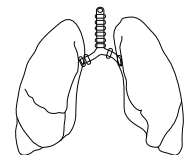
You have more than 600 muscles in your body.  
You need more than 200 muscles to take ONE step!  
You need more than 15 muscles to smile!

Most people have about 100,000 hairs on their head and about 50 fall out each day!

There are more than 300 million air sacs in your lungs.  
You use up about 15,000 litres of air each day when you breathe.



Your heart beats about 100,000 times each day.



Your heart pumps more than 900 litres of blood each day.



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