Name	Class	Date
Study Guide 28.1: L	evels of Organization	1
KEY CONCEPT The human body has f	ive levels of organization	1.
VOCABULARY		
determination	organ	1
differentiation	organ	n system
tissue		
differentiation	zygote	embryonic stem cells
specialized	apoptosis	determination
	vides and differentiates	rom a single cell called a into more than 200 different types
3. In humans, the firs	t few divisions of a zygo	te produce
	come committed to deve	loping into only one kind of
	cell acquires all the char	acteristics and functions of a

called ______.

6. Cells that are no longer needed die off in a process of programmed cell death

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MAIN IDEA: Specialized cells function together in tissues, organs, organ systems, and the whole organism.

Complete the table below with levels of organization, descriptions, and examples.

Level of Organization	Description	Example
7.	a basic unit of life with the specific structure and chemical makeup needed to perform a specific task	responsible for the exchange of gases in the lungs
tissues	8.	collections of epithelial cells that line stomach, lungs, and other organs
organs	different types of tissues that function together	9.
10.	groups of organs that work together in a coordinated way to perform the most complex activities of the body	stomach, intestines, liver, and other organs involved in digestion
organism	all organs and organ systems taken together	11.

Vocabulary Check

12. The word <i>determine</i> is part of	the term	, which is the process a
stem cell goes through when it	becomes c	ommitted to developing into only
one cell type.		

13. The word <i>different</i> is part of the term	, which is the process a
stem cell goes through as it becomes	a specialized cell.