

Name: _____

Date: _____

Worksheet 7 Specialized Cells & Stem Cells (Nelson p.54-56;77-78)

1) What is a **specialized cell**?

A specialized cell is _____

2) Why are our bodies made up of specialized cells?

Our bodies made up of specialized cells because _____

3) **Identify two types of specialized cells** that store or carry materials.

Two types of specialized cells that store or carry materials are:

a) _____

b) _____

4) **Identify** these **specialized cells** from the **descriptions** of their **functions**.

bone cells

red blood cells

nerve cells

fat cells

skeletal muscle cells

skin cells

a) Cells that move bones. _____

b) Cells that cover the body and help keep moisture inside. _____

c) Cells that distribute oxygen and remove carbon dioxide. _____

d) Cells that send electrical signals from the brain. _____

e) Cells that store energy in the form of fat. _____

f) Cells that store calcium and build new bone. _____

5. What is **cell specialization**?

Cell specialization is _____

6. What is a **stem cell**?

A **stem cell** is _____

7. Why are **stem cells** useful?

Stem cells are useful because

a) _____

b) _____

8. What is the **purpose of adult stem cells** in the tissue or organ?

The purpose of adult stem cells is _____

9. Draw the following **specialized cells** and explain how their **structure and/or appearance** relate to their **function**.

Specialized Cells	Draw a picture	Describe the Appearance	Explain the Function (job)
a) Red blood cell			
b) Nerve cell			