<b>Characteristics of Livin</b>	g Things: Notes and	l Worksheet

Name:	Date:	

*Instructions: For each of the following things, check whether it exhibits each characteristic. Be prepared to share your ideas.* 

	Made of Cells	Take in Nutrients	Use Energy	Produce Waste	Respond to Stimuli	Grow and Develop	Reproduce	Living? (Y/N)
	What is a cell?	What are nutrients?		What is waste?	What is a stimulus?		What does it mean to reproduce?	
How do		Examples:			Internal stimulus:			
you know?	Unicellular organisms are made of			Examples:				
		Consumers get their no by:	utrients and energy		External stimulus:			
	Multicellular:	Producers get their nutrients and energy by:						
1. Wood								
2. Rock								
3. Frog								
4. Leaf								
5. Worm								
6. Pencil								
<ul><li>7. Cactus</li><li>8. Paper</li></ul>								
9. iPhone								
10. T-shirt								
11. Car								
12. Book								

1.1 – Characteristics of Living Things (Science 8)	Name: Date: Block:
1) Living Things are Made of Cells	4) Living Things Produce Waste
Cells are the unit ("building blocks") of all living	Waste: substances that living things produce and
things	Examples:
Cells are very small (could fit 10-10000 cells in)	
A cell is like a 'bag' filled with and other structures	5) Living Things Respond to Stimuli
• organisms are made of a single cell only.	Stimulus (pl. stimuli): anything that a living thing to
Examples:	in a certain way
organisms are made of multiple cells.	Internal stimulus: information about your
Examples:	Examples:
	External stimulus: information about your
2) Living Things Take in Nutrients	Examples:
Nutrients: substances that living things need but	
for themselves. Examples:	6) Living Things Grow and Develop
Consumers: get their nutrients and energy by	• Increase in and/or
(e.g. hamster, human)	Heal (repair wounds)
Producers: can using the Sun's	Become more over time (includes)
energy and nutrients from their surroundings (e.g. plants)	
	7) Living Things Reproduce
3) Living Things Use Energy	Reproduce: produce more
Living things need energy (from to power their daily	• Examples:
activities.	<ul> <li>Many different reproduction strategies exist, including with and without a mate</li> </ul>
Examples of activities that use energy:	
	Living things exhibit all 7 characteristics of living things. If something is missing even of
	of the characteristics, it <b>is not alive</b> .

4) Bella the Bee and Charlie the Clover are good friends. One day, Charlie is having difficulty breathing, so Bella gives him some oxygen to try and help him out. Charlie becomes even

more sick as a result. Explain what is going on here, in terms of the characteristics of living things. Use appropriate vocabulary in your answer.

2) Explain why nutrients and waste are opposites. Use examples of each in your answer.3) How are growth/development and reproduction similar? How are they different?