## Chapter 17 Section 3 Guided Reading

1.	Electric Motors convert	energy to	energy.
2.	Define a rotor:		
3.	Draw Figure 17.17 showing how you	u use a magnet to spi	n a rotor.
4.	The key to making the rotor spin sm	noothly is to:	
	<ul><li>a) reverse the loose magnet ea</li><li>b) reverse the loose magnet who don't reverse the loose magnet</li></ul>	nen each magnet on t	he rotor passes
5.	Instead of holding a loose magnet of an to ke		otor uses
6.	Define commutator:		
7.	All types of electric motors must have	ve three parts. They a	are:
•		47.40)	
8.	Inside a small electric motor (Figure the rotor and stay fixed	on the inside s	surface of the metal housing.
	The are in the including the electromagnets.		

9. How do the <i>brushes</i> function inside the	e motor?			
10. Motors that run on AC electricity are education all by itself. Why is this a true		the current switches		
11. Electric generators convert	energy to	energy.		
12. If you move a magnet near a coil of wire, an electric current is in				
the coil. The process of using a movi	ng magnet to create an	electric current is called		
13. Can a non-moving magnet in a coil of wire create current? Explain.				
14. Draw a picture of a power plant gene	rator and how it convert	s energy. <i>Figure 17.2</i> 2		
15. The electricity in your home is produc) generators. On the	other hand, the current	in a battery is always		
moving the same direction so we call).	that, or (			