

Name:	
Date:	

How can you unlock a door using a magnet?

## **Lesson Assessment**

1. For each example, circle the property or properties of magnets being used. (There may be examples where more than one property is being used.)

Attracting: Magnets attract other magnets and some metals.

Repelling: Magnets repel other magnets.

Working at a distance: Magnets don't have to be touching to push and pull each other.

<u>Example</u>	Which prop	erty(ies) of mag	nets is being used?
a. Holding things on the refrigerator with magnets	Attracting	Repelling	Working at a distance
b. Cow magnets picking up metal in a cow's stomach	Attracting	Repelling	Working at a distance
c. Magnetic train ("MagLev" train) using magnets instead of wheels	Attracting	Repelling	Working at a distance
d . Magnetic clasp on a purse or bag	Attracting	Repelling	Working at a distance
e. "Magic" trick: moving a magnet with a magnet under the table	Attracting	Repelling	Working at a distance
f. Picking up cars & other metal pieces at the junkyard	Attracting	Repelling	Working at a distance

<u>Bonus</u>: In the space below, come up with your own example. Give the property of magnets it uses.

Reflect on your magnetic lock design: A. What problem were you trying to solve?				
В.	Draw and label your lock design.			
C.	Choose one property of magnets:			
	attracting repelling working at a distance			
	How was this property of magnets useful in your design?			