

9. $k(x) =$ up with would f(x) = g(x) =	$f(g(x))$ and $k(x) = (x - 3)^2$. Com n equations for $f(x)$ and $g(x)$ that produce $k(x)$.	e 10. $k(x) = f(g(x))$ and $k(x) = \sqrt{x+4} + 5$. Come up with equations for $f(x)$ and $g(x)$ that would produce $k(x)$. $f(x) = _$ $g(x) = _$
$11. \ k(x) =$ with exproduce must h $f(x) =$ $a(x) =$	f(g(x)) and $k(6) = 10$. Come up quations for $f(x)$ and $g(x)$ that woul e $k(x)$. Note, one of the equations ave degree 2.	12. $k(x) = f(g(x))$ and $k(-4) = 10$. Come up with equations for $f(x)$ and $g(x)$ that would produce $k(x)$. Note, one of the equations must have degree 2. f(x) =
g (x)		
 For chlorine, to convert from moles to atoms, you use the following function: a(m) = m(6.02 · 10⁻⁵) For chlorine, to convert from grams to moles, you use the following function: m(g) = g/(35.5) i) Simplify the following to get a function that takes you directly from grams to atoms: a(m(g)) = ii) Use your finding from part (i) to determine how many atoms are in 83 grams of chlorine. 		
14. Find ed	uations for $f(x)$ and $g(x)$ that satisf	y the following conditions. Then record and graph them.
• f() • a(g(x)) = x $f(x)) = x$	
Both equations are linear		
 f(x) has a negative slope g(x) has a negative y-intercept 		
$f(x) = _$		
$g(x) = _$		
15. Fill in a table of points for each function and record what you notice.		
$\frac{x}{f(x)}$		_

Noticing: