## Review

Solutions are mixtures that are blended evenly throughout, they can be solids, liquids, or gases. Air is a solution, (an evenly blended mixture), of gases. Air is approximately 78% nitrogen ( $N_2$ ), 21% oxygen ( $O_2$ ), with small amounts of carbon dioxide ( $CO_2$ ) and other gases mixed in it. Club soda is water with carbon dioxide ( $CO_2$ ) gas mixed in it. A substance is soluble if it will dissolve in another substance. For example, salt will dissolve in water, salt is soluble in water. A substance that will not dissolve in another is insoluble. For example, sugar will not dissolve in oil, sugar is insoluble in oil.

## Vocabulary:

Solute - a substance dissolved in another substance

Solvent - a substance in which other substances are dissolved, often a liquid.

Soluble - able to be dissolved in another substance.

Insoluble - incapable of being dissolved in a liquid

water	insol	uble s	olute	solvent	soluble
insoluble	CO2	solute	insolu	ble ins	oluble
1. The		in a salt	water solution	is salt.	
2. A substance	ce is said to	be	if	it is able to disse	olve.
3. In a soluti	on of club	soda,		is the solvent.	
4. Concrete i	s ———	i	in water.		
5. The part o	f a solution	in which the so	lute dissolves	is the	•
6. Sugar is _		in c	oil.		
7. The part of	of a solution	that dissolves i	s called the	-	<del></del> ·
8. When a su	abstance do	es not dissolve i	n another subs	tance, it is said to	be
9. In a club	soda solutio	on,	is	the solute.	
10. Sand is _		in w	vater.		
Skill Challe	nge —				
Skills: identi					
Identify the so	lute and so	lvent in each of	the following s	olutions.	

Solution	Solute	Solvent
1. Sea water		
2. Coffee		
3. Club soda		
4. Air		
5. Hot chocolate		