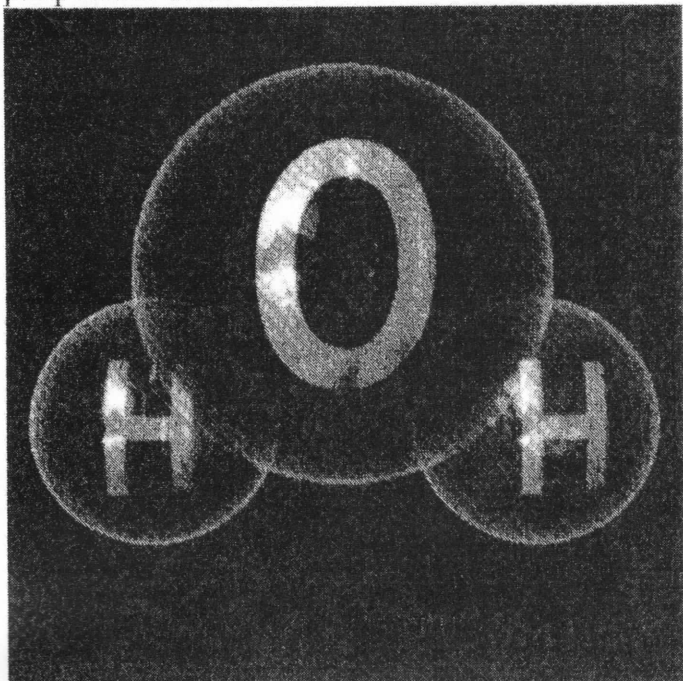


Mixtures & Compounds

COMPOUND

Water is an example of a compound. It is made of hydrogen and oxygen that has been chemically combined. When substances have been chemically combined, they form a new substance with different properties. Hydrogen gas and oxygen gas have different properties than water.



MIXTURE

Look at the beans and paper clips in the container. This is called a mixture because the beans and paper clips are not chemically combined. They are still beans and paper clips, and have not formed a new substance. They can be separated by physical means.

- A) Separate the mixture by removing the paper clips. 3 people remove the paper clips while 1 person use the stopwatch to time the process.

Time to remove the paper clips: _____ sec

- B) List 4 properties that make beans and paper clips different:
- a) _____
 - b) _____
 - c) _____
 - d) _____

- C) Mixtures can often be separated by their properties. Obviously the paper clips are made of metal while beans are not. Therefore, magnets can be used to separate the paper clips from the mixture. 3 people remove the paper clips using magnets while 1 person use the stopwatch to time the process.

Time to remove the paper clips: _____ sec