## Separation of Mixtures – Solids Procedure:

1.	Dump the mixture out on a sneet of paper and spread the mixture out.
2.	Using the material provided, separate the iron filings from the rest of the mixture. (DO NOT TAKE THE MAGNET OUT OF THE BAG) Put the iron filings on a separate sheet of paper.
	What did you use to separate the iron from the rest of the mixture? a
	b. What physical property of the iron did you use to separated it from the mixture?
3.	Pour the remaining mixture, <b>SAND</b> and <b>SALT</b> , into a test tube and fill it about half way with water. Now <b>you have a mixture of Sand, Salt and Water</b> . Stopper and shake well.
	a. Look at the test tube what kind of mixture is it, solution, colloid, or suspension?
	b. What happened to the sand in the mixture: (you may need to pick more than one)
	i. did it dissolve, not dissolve, sink, float
	c. What happened to the salt in the mixture: (you may need to pick more than one)
	i. did it dissolve, not dissolve, sink, float
4.	Wet the coffee filter and put it in the funnel, put the funnel in a clean beaker. Shake the test tube and pour the mixture into the filter. You may need to rinse it again.
	a. Which part of the mixture the sand, salt or water stayed in the filter?
	b. Which physical property allowed you to separate the sand from the mixture
	i. Why did it get stuck in the filter, which physical property?
	c. Which part of the sand, salt and water mixture came through the filter?
	d. The mixture maybe a little dirty because we are only using a coffee filter.
	e. What physical property allowed you to separate the salt from the mixture, think which property allowed the salt pass through the filter?
5.	We started with a mixture of Iron filings, Sand and Salt. Which parts of that mixture have you separated so far? Iron filings, Sand and Salt and Water (What did we separate in the steps above)
6.	What substances, in the beaker, still need to be separated? Iron filings, Sand and Salt and Water
7.	How could you separate these substances?
	a. Which physical property would you be using to separate the salt from the water?

