The Education Program at the **New Jersey Sea Grant Consortium**



22 Magruder Road Fort Hancock, NJ 07732 732-872-1300 njseagrant.org

EXPLORING BEACH SAND

Beaches are composed of materials deposited by waves. The composition and appearance of sand on different beaches depends on many things including geologic factors as well as natural and human forces.

If you were to look at sand from beaches worldwide, you would observe many differences,

including color, texture and composition. For instance, if you traveled to Bermuda you would find the sand pink in color. The sand on some of the beaches on the Hawaiian Islands is black. If you found yourself walking the beaches in the Bahamas you would notice that the sand there is white.		
Why o	lo you think s	and comes in so many different colors?
Sand is made of rocks, minerals, and shells that have been worn down into loose gritty particles through the process of erosion. The major minerals found in the sand on Sandy Hook beaches are:		
1.	Quartz	Silicon Dioxide. Glass-like. Is clear to white when pure, but is often colored.
2.	Feldspar	Any one of a group of moderately hard, light colored minerals found in igneous rocks. Principally aluminosilicates of potassium, sodium and calcium.
3.	Magnetite	An oxide of iron appearing in sand as dark specks; its presence can be verified through the use of a magnet because of the mineral's iron content.
is brol	ken into piece to create sand	New Jersey shore comes from the mountains of the northeastern states. Rock s by the actions of water and wind and carried by rivers and streams to the deposits. These sand deposits are then carried up and down the coast by the form the beaches that you see.
Comp	are and contra	ast four different sand samples.



The New Jersey Sea Grant Consortium (NJSGC) is an affiliation of colleges, universities and other groups dedicated to advancing knowledge and stewardship of New Jersey's marine and coastal environment. NJSGC meets its mission through its innovative research, education and outreach programs. For more information about NJSGC, visit njseagrant.org.