

## Project Based Learning: STEM In-Class Activity

**Title/Subject:** Sea Turtle Nesting and Navigation

**Category (check all that apply)**

<u>Science</u>	<u>Technology</u>	<u>Engineering</u>	<u>Mathematics</u>
X			

**Adventist Elementary Science Standards:**

S.K-2.LS.1 S.K-2.LS.3 S.3-5.LS.1 S.3-5.LS.11 S.3-5.LS.12 S.6-8.LS.4

### Overview:

Initial project was to explore the magnetic navigation of sea turtles by laying a compass into a bowl of water. Compass was generated by sliding a small needle along a magnet and inserting into a piece of cork with a printed sea turtle picture attached.

Play doh turtle eggs were placed in a dish of dampened sand to replicate and reconstruct a sea turtle nest. Participants were encouraged to use a half-cylinder dome for support, and were able to make eggs as large or small as they wish. This followed a lecture by Dr. Marsha Wright, in which she described the nesting process of sea turtles that she studies.

### Materials:

Project 1: Cork, needle, strong magnet, bowl, sea turtle pictures

Project 2: “play-doh” (flour, salt, and water), sand, plastic container, paper cup “dome”

### Results:

