

Lego Lab Lesson – Boats! (45 minutes)

Learning Goal: I will be able to follow pictorial directions while building for a purpose.

Learning Activity: My team and I will create boats out of Legos. We will use the direction card to assemble out boats.

Don't forget that you can use the pre test prior to coming to the Lego lab as well as the post test when you go back to your classroom. We do encourage you to use these tools as a way to track learning in the lab. You will want to group students in 4 groups.

The story is today is based on water and water safety. The book is Ebb and Flo and the Greedy Gulls. PLEASE DO NOT REMOVE THE BOOK FROM THE LAB AS IT IS CHECKED OUT TO ME OR SUSAN!! I don't want to pay for any lost books!

Suggested delivery of lesson: (gauge your time to allow most time for building)

- Go over learning goal
- Read aloud the story “Ebb and Flo and the Greedy Gulls”. Talk about the boat that is pictured in the story (a rowboat). Draw a birds-eye outline of this boat on the board. Tell students that the front of the boat is called the bow, and the back is called the stern. Have students volunteer other types of boats. Discuss the

different ways that boats move on the water. Show the Lesson Picture Card (on top of the two Harbor kits on the table) and have students describe the boats they see. Tell students that they will NOT be using DUPLO bricks today, they will be using the smaller LEGO bricks that they will find in each of the two “Harbor” Kits. Divide students up into two groups and provide each group with one kit and the FIRST directions card (it features only boats). Tell students that they can each build their own boat – by using the directions on the back and their OWN ideas. (There are directions on the back of the card for a basic boat design). Boats must be powered by sail, steam or outboard motor! Ask builders to put someone in the boat who can steer it! When students are done, have them share the boats that they have made. If you like, provide a tub of water to see whose boat floats! Ask: How is your boat powered? Is there a way for the boat to be steered? There are two “Lego lifejackets” in each kit. Who thought to put one on their “sailor”? Why is a lifejacket important? What does it do? What are some other rules to follow when you are in boat?