Grade Two	SCIENCE	1-4	0 minute lesson
Teacher:	The Buoyancy of Carrots	CHEI The Big	P Good Food Inc. I Crunch Resources
Context: The Big Crunch is coming discussions about healthy eating; agriculture; and to encourage kid. build on the Big Crunch carrot the carrots as a foundation to use exp Outcomes & Indicators: Physical Science: Liquids a LS2.2 Investigate interactions between lice interactions. [CP, SI, TPS] • Use a variety of sources (e.g., ne Internet) to gather information a kayaks, barges, boats, buoys, an • Demonstrate an understanding o problem such as building an obje	this October - the goals of the program to explore the journey of food from farm to connect with their food! This lesson me in their classrooms while meeting Sk perimentation as a method to explore th nd Solids nd Solids uids and solids, and technologies based of ewspapers, Elders, anglers, books, videos, a about objects that sink and float (e.g., cano d fishing lures). f sinking and floating by solving a related pre- tect that will float, carry a load, and be stable	n are to eng n to table; t is designed (curriculum e science of n those nd es, ractical le.	age students in to learn about local to allow teachers to noutcomes. It uses f buoyancy. Materials Needed:
 Learning Activity: Show the class a carrot. P experiment, "Alright stud Create a simple chart to t how many think it will sin "What makes you think it we seen float?" As a class, conduct the fir plastic container full of w 	ose a simple question to lead into your ents, do you think this carrot will sink of rack how many students think it will flo k. Ask questions to drive a bit of discuss will sink? What kind of objects/materia st test – drop a large piece of carrot into ater. Watch it sink. Consider timing how	r float?" at and ion: Is have o a v long the	
 carrot takes to reach the 4. Explain the science: Buoy water, air or another fluic can back float in the pool so it displaces the water (bottom. The carrot is NOT 5. Pose a question: Is there a Could we make it float? 6. Give each student a chun teeth!), hollow out the pie boat-like shape. 7. Once again, place the carro Discuss as a class why this water is able to lift it up! 	bottom of the water. ancy is "the ability or tendency to float of d." Human beings are buoyant, that's wh ! The carrot is denser, heavier, than the pushes it out of the way) and sinks dow I buoyant. any way we could make a carrot more b k of carrot. Using the spoons and the pe ece of carrot (see diagram) to create a s rots in water. Notice that now they can s might be. The carrot is lighter now, and	on ny we water, n to the puoyant? eelers (or mall float. d so the	CARPOT PUSHES DOWN DOWN DOWN DOWN WIRTER PUSHES UP CARPOT PUSHES DOWN CARPOT PUSHES UP
Extensions: Try carrying a small lo new extra weight effect the carro competition to see whose boat ca	ad (such as a marble) in your boats, doe ts buoyancy? In small groups, have a in carry the most cargo.	es the	B TWATER PUSHES UP