Planning Guide for Direct Instruction

Lesson Topic: Patterns of Motion

Grade Level: 3rd

What Taught (Concept/Process)	**How Taught** (Instructional Strategy)	**How Evaluated** (Demonstrate Learning)
State Core Standard # 3.3.2 **Analyze and interpret data** from observations and measurements of an object's motion to identify patterns in its motion that can be used to predict future motion. Materials: Picasso Marble Run Track ($80) , Mastery Dominoes Kit ($180), Contraption Reactions ($56) Keva Planks	Anticipatory set: Read the book "Just Like Rube Goldberg" Objective: Over the next few days we will learn who Rube Goldberg was, learn about his "machines", make a class machine and then in a group of 4 people you will create your own Rube Goldberg machine. Input: 1. First, I am going to show you a few examples of simple and complex Rube Goldberg Machines. Small Rube Goldberg Machines Lunch feeding contraption 2. One thing to remember is that it takes time to get it exactly right so the chain reactions work. This is a fun video that will motivate you to keep trying. Audri's Monster Trap Guided practice: We are going to design a Rube Golderg machine together as a class with 3 chain reactions. 1. Show students what different materials we have to use. 2. Discuss ideas on what our machine will do (ring a bell, trap a monster). 3. Design a simple plan on paper - showing the 3 chain reactions 4. Build the machine together as a class Independent practice: Give a paper to each group and have them create a plan on paper. Then they can use building materials to create their Rube Goldberg Machine and then share it with the class.	Assessment: Each group will share their "machine" that has 3 different chain reactions with the class