

Grade 3	Lesson: 15-4 Units of Weight	Reference to English
Math Standard(s): 3.MD.2		Domain: Measurement and Data
Content objective(s):		Language Objective(s):
Students will choose an appropriate unit and tool, estimate, and measure in ounces, pounds, and tons. Students will identify objects that weigh about an ounce, a pound, or a ton. 我会选择适合的单位和工具来估计和用盎司, 磅和吨来测量。 我会认出大概一盎司, 一磅或一吨的物体。		Students will explain why they made their estimations. 我会解释我怎么估计的。
Essential Understanding: The weight of an object is a measure of how heavy an object is.		Required Academic Vocabulary for Word Wall: Listen: 重量, 盎司, 磅, 吨 Read: Write: Speak: Sentence Frame: “它大概 _____ 重。”
Materials: <ul style="list-style-type: none"> Pan Balance 		Additional Lesson Vocabulary:
Lesson:		Instructional Time: 30-35 minutes
Opening: (5 minutes) <ul style="list-style-type: none"> Review mass, gram, kilogram, measuring. T: “今天你会学习怎么测量一个物体的重量。” <ul style="list-style-type: none"> Display a collection of objects to measure. Hold up a student’s textbook. T: “告诉你旁边的同学 3 样与这个课本一样重的物体。” Introduction to New Material (Direct Instruction): (4 minutes) T: “一个物体的重量是在测量物体有多重。” <ul style="list-style-type: none"> Write ounces (oz) and pound (lb) and ton on the board. T: “一磅里有 16 盎司, 1 吨里有 2,000 磅。” <ul style="list-style-type: none"> Use page 380B in the Teachers’ Manual Have students work in pairs. Ask the students WHY frequently. Guided Practice: (8 minutes) <u>Use the modeling cycle:</u> Teacher Does: <ul style="list-style-type: none"> Estimate the weight of at least 5 objects as a class. Have the students tell each other the estimations. <u>1 Students Does with Teacher:</u> <u>2 Students Do:</u> <u>All Students Do:</u> <ul style="list-style-type: none"> Have students work in groups to estimate the weight of various objects. Have students record their work and tell their group their estimations. “It weighs about _____.” T: “我们来测量这些东西的重量。我们来看你的估计有多接近。” Independent Practice: (10 minutes) <ul style="list-style-type: none"> Have students do problems 1-12 on page 380 independently. Help students as needed. Closing: (7 minutes) <ul style="list-style-type: none"> Do problems 19 as a class. Have the students explain why to each other. Do problem 21 as a class. 		
Assessment:		
Guided and Independent Practice		