

WEIGHT

8.6.2018

Subject

Mathematics

Prepared By

[Instructor Name]

Grade Level

1

Overview

This lesson plan covers teaching content for;

1. Identification and naming of objects that can be used for measuring weight.
2. Comparison and ordering of numbers by their weight.

Objectives

Students should be able to;

1. Identify and name objects that could be used for measuring weight.
2. Compare, describe and solve practical problems for mass/weight for example, heavy/light, heavier than, lighter than.

Teacher Guide

Day 1, Lesson 1- 15 Mins

1. Ask the students to hold out their hands, take one item in each hand and tell you which one weighs more.
2. Begin with familiar classroom items, such as a stapler and a glue stick or a pair of scissors and a marker.
3. Progress to manually weighing items with less obvious differences in weight, such as a box of pins and a glue stick or two notebooks, one thin with larger pages and one thick with smaller pages.
4. As the students express their differences of opinions or the items that they are uncertain, point out the need for equipment to make accurate measures.

Teacher Guided Practice

Day 2 Lesson 2- 10 mins

(The Balance Pan Scale)

1. Find out whether your students are familiar with a balance pan scale. Ask them if they know what it is for.
2. Do they respond that it tells whether something is heavier or lighter than what is in the other pan or whether they are the same weight?
3. If so, move on to check whether they know that the heavier item will tip its pan lower and that the pans will balance if the items weigh the same amount.
4. Students with experience on see-saws will likely understand this.
5. If students do not know what a balance pan scale does, then place a variety of objects opposite one another in the pans and observe what happens.
6. Can the students figure out what is happening and why?

Materials Required

- Classroom items like staplers, markers
- Balance Pan
- Stones
- Shells
- Bags

Additional Resources

- <https://nzmaths.co.nz/resource/seesaw>
- <https://www.edu.gov.mb.ca/k12/cur/n>
- <https://www.pinterest.co.uk/pstohrhuj>
- <http://www.mrsrichardsonsclass.com/>

Additional Notes

Introduction/Instruction

1. Mass is often considered a synonym for weight.

Objectives

2. Mass is the amount of matter in an object.
3. Weight refers to the pull of gravity on that object.
4. So, if a person were on the moon, their mass would stay the same as on earth, but their weight would be different (less) due to the reduction of gravitational pull on the moon.
5. Since on earth mass and weight are very close, we tend to use these terms interchangeably, particularly in elementary school.

Teacher Guide

Day 3, Lesson 3 – 15 Mins

1. Provide students with a wide selection of items ranging from very light to heavy with several noticeable differences between them e.g. large stones, shells, seaweeds etc.
2. Allow students to compare and measure using the items themselves e.g. Is this stone heavy? Is it heavier than the seaweed and shell?
3. Allow students to balance the objects.
4. Discuss which objects balance well and which do not.
5. Why is it harder to balance a round stone than a shell? Why does the stone roll that way each time?
6. Give the students one of the objects and ask them to find a lighter/heavier object than the one they are holding.
7. Now check the weight of the objects using a balance and discuss the standard units used to measure weight.
8. Using a balance to collect objects which are lighter; the same weight; and heavier than a kilogram.
9. Make up bags of stones, shells and sea-weed to weigh a kilogram.
10. Make the bags as different in size as possible. Allow students to make up their own bags of these items to weigh a kilogram.

Teacher Guided Practice

Day 4 Lesson 4 – 10 Mins

Measuring objects

1. Place several classroom objects and the scale at the station.
2. Have students take turns weighing each object. They should record their measurements in a chart
3. Then they can compare and discuss measurements using terms like greater than, less than, heavier, and lighter.

Objectives	Teacher Guide	Teacher Guided Practice
Assessment Activity	Assessment Activity	Assessment Activity
	1.	1.
Summary	1.	