**Lesson Title: *Actual Size***

Grade : Second

Time:

**AL COS Standards related to this lesson:**

Science

Obtain information from literature and other media to illustrate that there are many different kinds of living things and that they exist in different places on land and in water (e.g., woodland, tundra, desert, rainforest, ocean, river).

Math

14. Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes. [2-MD1]

16. Estimate lengths using units of inches, feet, centimeters, and meters. [2-MD3]

17. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. [2-MD4]

Language Arts:

13. Determine the meaning of words and phrases in a text relevant to a Grade 2 topic or subject area. [RI.2.4]

14. Know and use various text features (e.g., captions, bold print, subheadings, glossaries, indexes, electronic menus, icons) to locate key facts or information in a text efficiently. [RI.2.5]

15. Identify the main purpose of a text, including what the author wants to answer, explain, or describe. [RI.2.6]

Objective(s):

Students will be able to use information from an information text to identify the main purpose of a text in general discussion with one another and the teacher.

Students will be able to write four key facts and draw supporting pictures using a four square.

Students will be able to measure the actual size of different elephant body parts on paper using appropriate measuring tools.

Students will be able to measure to determine how much longer elephant body parts are than their own and will express the length on the Actual Size recording sheet.

Materials:

Book-Elephants by Carla Litchfield

Reading Passage Look Who’s Talking

Large sticky note for recording st thinking

Index cards w/miniature elephant pattern pieces and dimensions

Newspaper or butcher paper

Tape

Scissors

Black markers

Pictures of elephants

Rulers or yardsticks

Key facts four square

Actual Size recording sheet

Procedure:

* Gather students in the meeting area of the classroom. Ask students to discuss everything they think they know about elephants. Record all responses on the large sticky note.
* Read the story Elephants aloud to students. Note places where students’ existing schema is consistent with what they hear/learn from the story.
* Pass out the article *Look Who’s Talking.* Ask students to discuss what they notice about the way the article is written (specifically draw their attention to headings, photograph, bold print word).
* Have students work in pairs and read the article together elbow to elbow/knee to knee.
* As students finish their reading, they may re-read until everyone is finished and/or tell their partner the interesting facts they learned while reading.
* Discuss the interesting facts students’ learned from reading the passage and link this to the information they shared prior to reading.
* Focus on what students learned about the size of an elephant.
* Divide the students into teams of 3. Each team will be responsible for drawing and cutting out one of the elephant pattern pieces.
* Explain that the pattern pieces represent the dimensions that a large African bull elephant might have.
* Model how to use the index card to measure and draw. For the modeling, use an elephant part that is large (ear or leg). Have students explain what they see you doing and ask if they have any questions about what they are to do.
* Discuss the procedure for student groups to transition from the whole group meeting area to a work area in the room. Explain that groups may finish their measuring and cutting at different times and if students finish they will get a four square sheet from a designated spot and 1. write an interesting fact they learned from their reading and 2. Include a picture for each fact.
* Explain the procedure for getting rulers, yardsticks, pencils or crayons for drawing, and paper.
* Dismiss groups to begin working. Provide plenty of butcher or newspaper for the students to use as mistakes will be a part of this process. Students will also need access to tape to make the larger pattern pieces.
* Monitor the room and the work as it progresses. Assist where needed.
* As students complete their patterns, they should get a four-square sheet from the designated spot and begin completing this work.
* When each group is finished measuring and cutting the pattern place the pieces on the floor in the meeting area and invite students to meet you there. Ask students to place their four square work in the middle of their tables for you to collect.
* The following are math comparisons that can be made and recorded on the Actual Size recording sheet: a.) have the st tape the footprints to the floor, the correct distance apart. Then have them compare their foot sizes and strides to that of an elephant b.) hold up one of the elephant legs and have the students stand next to it to see how their own legs compare c.)Tape the elephant tail, trunk, and/or tusk to one wall and have the kids measure their height against it d.) have each st measure one of his or her upper incisors and figure out how many times bigger an elephant’s incisor (tusk) can be e.) Spread out an ear or the elephant body on the floor and have the st see how many of them can sit or lie down in each one
* After all the comparisons have been made, have the st lay the elephant pattern pieces on the floor in the correct shape and help them tape the pieces together using long strips of tape.
* Once the elephant is all taped together have the kids outline the ear and tusk with black marker or crayon and tape it to the wall.

Assessments:

Informal assessment for each objective of the lesson will be anecdotal notes and observations of students’ participation in discussions, and their ability to measure the elephant pattern pieces.

Formal assessment: Students will accurately write four key facts they learned from their reading and will draw supporting pictures using a four square.

Students will choose an appropriate tool to accurately measure how much longer elephant body parts are than their own and will express the length on the Actual Size recording sheet.