

LESSON PLANS: ALBERTA

Grade 1: Shape and Space

 45-50 MINS

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 Mathletics

General Outcome:

- Use direct and indirect measurement to solve problems.

Specific Outcomes:

- Use direct comparison to compare two objects based on a single attribute, such as length (height), mass.

Introduction to Lesson

 10-15 MINS

Teacher Background:

On the interactive whiteboard, bring up **Concept Search** from the **Mathletics Teacher Console > Demonstrations > Concept Search**

Click on **Animated Maths Dictionary**. Enter the term **measure** in the Word Search bar. Have a class discussion on things that the students might measure.

Within the Mathletics Teacher Console,

Demonstrations > Concept Search > Concept Search

search for "comparing length". You will notice that there are a few slides in this visual. Slides can be maximized by clicking on the square and arrow icon located at the bottom right hand corner.

Display the first slide and ask the students what they are noticing:

- Which one is longer?
- How do you know?
- Is there something on/in your desk you can compare?

The next slide allows students to explore the classroom for objects. Have the students collect their information and then share it with the class.

ITEMS NEEDED

- ✓ Interactive whiteboard
- ✓ Mathletics teacher login
- ✓ Mathletics student logins
- ✓ Measuring tools
- ✓ Computers/tablets
- ✓ Math journals (if implemented in the classroom)
- ✓ Manipulatives

ASSESSMENTS

- ✓ Observation
- ✓ Participation
- ✓ Reports from the curriculum activities within the Mathletics Teacher Console.
- ✓ Measurement assessment within Mathletics Student Console.

ACCOMMODATIONS/ MODIFICATIONS

- ✓ Encourage students to click on "Something Easier" and "Something Harder" within the Mathletics curriculum activities.
- ✓ Provide students with manipulatives.

EXTENSION OF LEARNING

- ✓ Game under Problem Solving > Balance.
- ✓ Curriculum activities.
- ✓ eBooks: students complete selected pages from teacher.

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The Lesson

 30 MINS

Rainforest Maths

- On your interactive whiteboard, click on the Demonstrations tab within the Mathletics Teacher Console. Click on the Rainforest Maths icon. Click on grade 1 and start off with the “Length” game.
- The game will display bugs and how long they are using a various objects. Display the first picture and have the students guess how many paper clips long the bug is. Students can write down their answers on paper. Have a student come up and drag the paper clips to find the answers. Discuss what their answers were and how they come up with that number and what strategies they used.
- You can carry on with other bugs by clicking on the “More” bug at the bottom right corner. This activity can be continued as a teacher-led activity, or students can work in pair on computers to complete it.

- **Reinforcement:** Computers/tablets—Have the students complete curriculum activities in the Student Console.

Suggested activities:

- Everyday Length
- Everyday Mass
- Filling Fast!
- Which Holds More?
- Comparing Length



- **Extra-time activity/cross-curriculum activity:** Pick an object in the school—it could be something in the hallway, schoolyard, or principal’s office. Have the students decide on a measurement tool such as counters, snap cubes, or paper clips. Discuss with students some strategies for choosing the correct measurement tool for the item they want to measure. For example, if they want to measure a park slide, would they use counters, pencils or their hands? Have the student predict the length and then confirm it. Students can record this in their math journals.

After the lesson

 5 MINS

- Discuss some of the items they measured and what tools they used.
- What objects were harder to measure (straight vs. round objects)?
- Have the student go home and measure a parent, guardian, or sibling using non-standard measuring items such as paper clips, pencils erasers, etc.



For more information contact our friendly team...
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