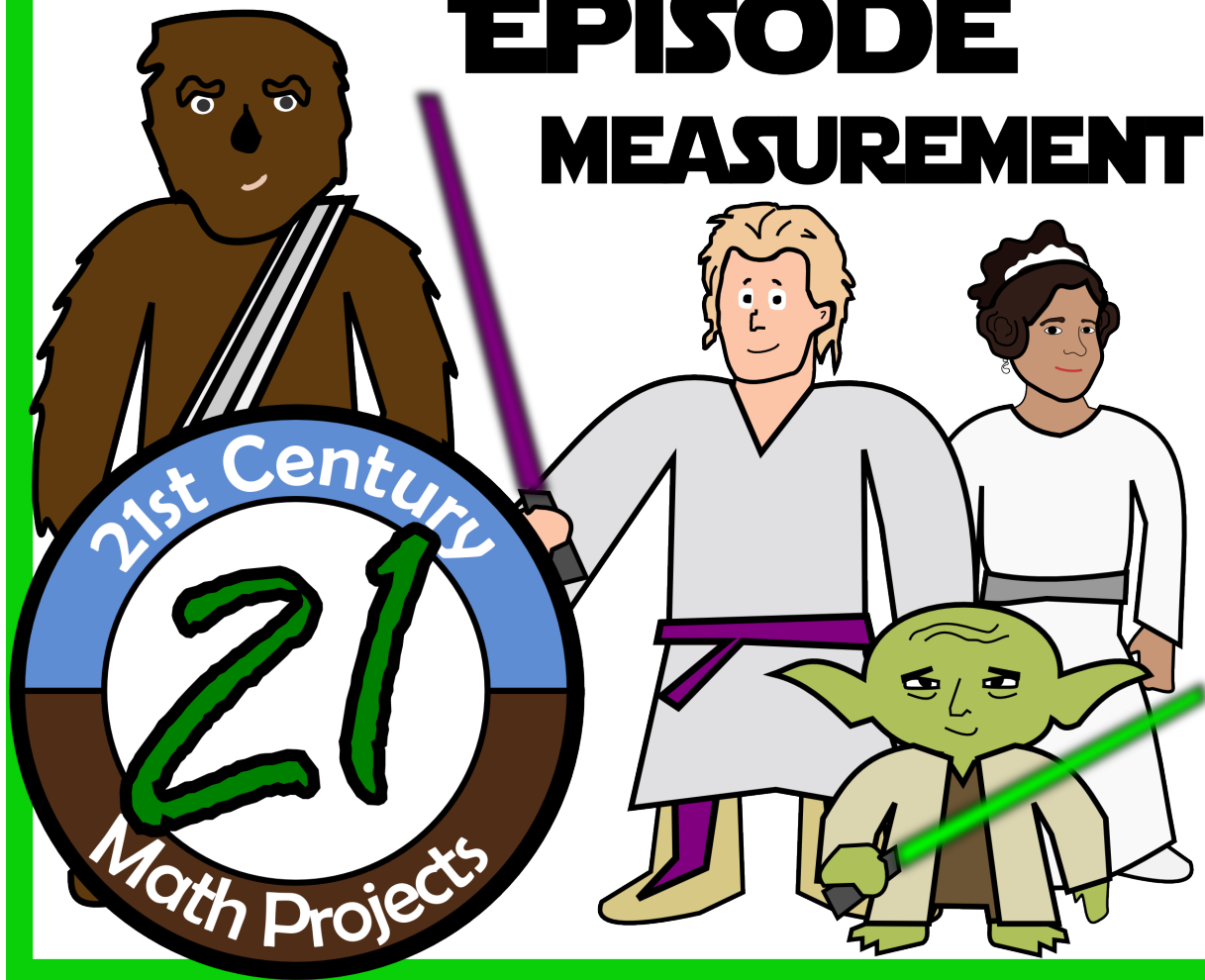
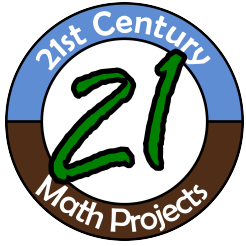


# JEDI ACADEMY

## EPISODE

### MEASUREMENT





# JEDI ACADEMY: EPISODE MEASUREMENT

<b>Ideal Unit:</b> Measurement	<b>Time Range:</b> 2-3 Days	<b>Supplies:</b> Rulers, Pencil & Paper				
<b>Topics of Focus:</b> <ul style="list-style-type: none"> <li>- Measuring lengths in inches</li> <li>- Measuring using a unit grid.</li> </ul>						
<b>Driving Question</b> <i>"How does measurement enhance the abilities of jedi masters?"</i>						
<b>Culminating Experience</b> Save the jedi's and defeat the dark side.						
<b>Common Core Alignment:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; padding: 5px;">3.MD.B.4</td> <td style="padding: 5px;">Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units— whole numbers, halves, or quarters.</td> </tr> <tr> <td style="padding: 5px;">3.MD.C.6</td> <td style="padding: 5px;">Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).</td> </tr> </table>			3.MD.B.4	Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units— whole numbers, halves, or quarters.	3.MD.C.6	Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).
3.MD.B.4	Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units— whole numbers, halves, or quarters.					
3.MD.C.6	Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units).					
<b>Procedures:</b> <p>Note: if you use this file digitally, the answer key may not be exact. The images are to scale in the PDF file, but occasionally printers may expand or shrink the pages a little bit. So please check the answers for yourself first.</p> <p>A.) In "Jedi Academy", students will use a ruler to measure and solve a variety of problems.</p> <p>B.) In "Use the Force", students will complete a variety of more challenging measurement problems that culminate in a face off against Darth Vader. This work can be done in teams or individually.</p> <p>C.) In "Jedi Master", students will construct their own measurement problem and share its solution. As an extension, students can share their solution on an audio or video recording that explains the steps to complete the challenge.</p> <p>* Aspects of the project can be completed independently. The entire project does not need to be completed to have a great learning experience, though it is suggested because it will best scaffold the skills and context.</p>						



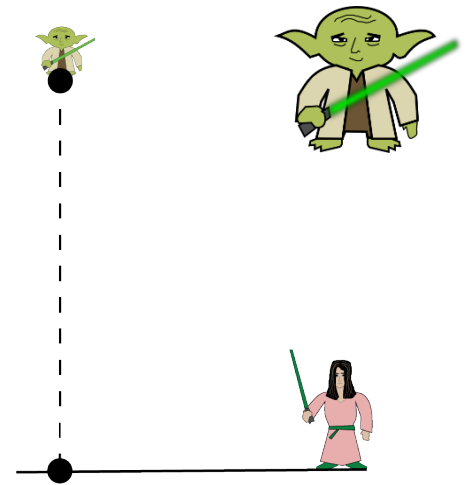
# JEDI ACADEMY

Name \_\_\_\_\_ Date \_\_\_\_\_

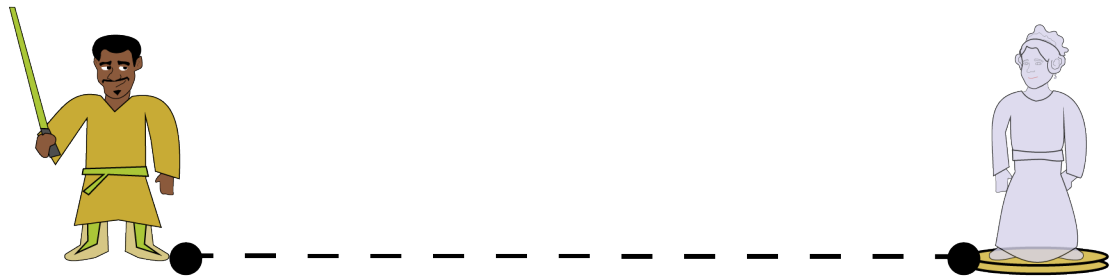
A long time ago in a galaxy far, far away... a new set of Jedi Trainees are being trained by the heroes of the past. One of the secrets to mastering "the Force" is a concrete understanding of measurement. It turns out that Jedis must compute measurements that help them understand exact distances. In these training problems, develop your measurement Jedi skills before you are asked to save the galaxy. In these problems, you will practice with inches. But, real jedis can convert this into the units they need.

## LENGTH AND DISTANCE TRAINING

1. A Jedi Trainee watches Yoda use the Force to make a jump in the air. How high did Yoda jump? Measure the length between the two points in the drawing.

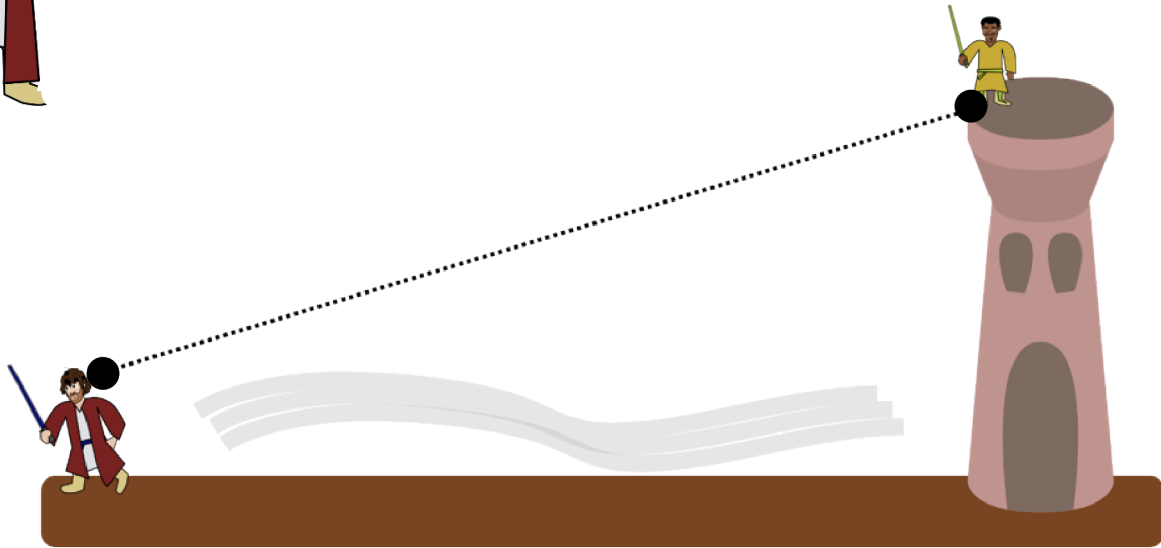


2. A Jedi Trainee sees a hologram projection of Leia. How far away from the hologram is the Jedi Trainee? Measure the length between the two points in the drawing.





3. A Jedi Trainee watches Obi Wan use force speed starting from a tower. After 8 seconds, the Jedi Trainee looked again. How far away is Obi Wan now? Measure the length in the drawing between the two points.



4. Before taking off in the Millennium Falcon, R2-D2 determines the ship must clear a mountain. How tall is the mountain in the drawing in inches?

