

# Teaching STEM through Fairy Tales

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## Little Red Riding Hood

### The Challenge

Students are challenged to design and build a basket that will hold the most weight.

### The Criteria

- Students may use only the provided materials.
- Each basket must contain sides, a bottom and a handle.

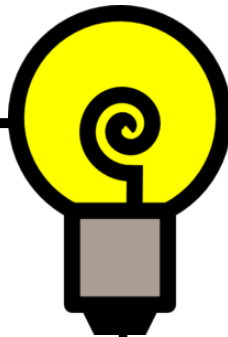
### The Constraints

- Baskets must not exceed 4" in any one direction.
- Baskets must contain no more than 10 pieces of pasta, 24" of yarn or string, 24" of tape, half piece of construction paper (approximately 4.5" X 6").
- Baskets will be tested by hanging the basket on a wire hook (bent coat hanger) and placing marbles or other equal weight objects in the basket until it fails.

### The Materials

- |   |   |
|---|---|
| <input type="checkbox"/> linguine (uncooked)                          | <input type="checkbox"/> Wire coat hangers (one per team) |
| <input type="checkbox"/> string or yarn                               | <input type="checkbox"/> Scissors                         |
| <input type="checkbox"/> tape (any kind)                              |   |
| <input type="checkbox"/> marbles (or other small equal sized weights) |   |
| <input type="checkbox"/> construction paper                           |   |

Think of Ideas: How do we solve the problem?



Find a Solution:  
Which idea will work best?

Design:  
How will we design and build it?

Test and Evaluate: How do we know we solved the problem? What can be improved?

*Share your Success!*