

# Teaching STEM through Fairy Tales

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## Goldilocks and the Three Bears

### The Challenge

Students are challenged to design and build a new chair for Baby Bear.

### The Criteria

- All chairs must have four legs and a back.
- All chairs must support Baby Bear (can of soup) successfully for one minute.

### The Constraints

- Baby Bear's chair must be no larger than 6" in any one direction.
- Students may only use materials provided and are limited to 2 feet of string, 3 straws, a coffee filter and one sheet of copy paper
- Chairs will be tested by placing each one on the table and placing Baby Bear (can of soup) in it. Chairs must support Baby Bear for at least 60 seconds.

### The Materials

- Drinking Straws
- Coffee Filters
- String or Yarn
- Copy Paper
- Can of Soup (one per team)
- Stopwatch (one per team)

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!*