

# THE UGLY DUCKLING

The Ugly Duckling really changed as he grew up. He didn't even recognize himself when he saw his reflection in the water! As I'm sure you know from personal experience, humans also change as they grow bigger. In fact, lots of things change as they get older. Can your team create an example of this transformation?

**Challenge:** Choose an example of something that changes over time and create a model of the change and a theory to explain how this happens.

## Difficulty Levels:

**Entry:** Imagine something that changes as it gets older. Build a model to show how that happens and get ready to explain your creation.

**Middle:** Imagine something that changes and gets bigger as it gets older. Build a model to demonstrate these transformations and plan a presentation to explain what is happening.

**Advanced:** Transform one of your team members into something that changes and gets bigger as it gets older. Create a fairy tale to explain that process.

**Time:** Part One: You will have 4 minutes to choose an example of something that changes as it gets older, to build a model of that process and to prepare a presentation to explain what is happening.

Part Two: You will have one minute to present your solution to the appraisers.

**Materials:** a lot of newspapers  
a roll of masking tape

**Scoring:** up to 15 points for the creativity of the choice of example  
up to 40 points for the creativity of the model  
up to 25 points for the effectiveness of the explanation  
up to 20 points for positive team work

**Special note for appraisers:** Determine the appropriate level of difficulty for this team before you begin and read only one set of directions. This would be a good opportunity to have a team solve the same challenge several times, making it more difficult each time.