



Ms. Valerie's Learning at Home Activity Humpty Dumpty Egg Drop Challenge

Related **Science Lesson** Airs October 6, 2021 on WQLN PBS

How to Make

Materials:

- Various materials to protect the egg (paper tubes, cotton balls, plastic bags, balloons, egg cartons, bubble wrap, sponges, boxes, craft sticks, cups, socks, towels)
- Tape or rubber bands to secure the egg
- Raw eggs, Permanent marker



Directions:

1. **Investigate/ Ask Questions** - The challenge is to drop an egg without breaking it.
2. Ask your child what ideas s/he has about how the egg could be protected.
3. Draw different feeling faces on your eggs using a marker.
4. Based on your child's ideas, design several devices to protect the egg.
5. **Predict** what will happen. Put an egg in each one of the devices.
6. Keep the drop-height and landing (variables) the same for each one. You could drop from a table, a porch, a playhouse, swing set climber, a step ladder, etc.
7. **Observe** what happens. How does the design work? Does the egg break?
8. **Conclude** - Was your prediction correct? Did the design work the way you thought it would? Ask your child to explain why s/he thinks the egg did or did not break.
9. Can you change variables (height, landing -surface, etc.) to get different results? What happened? Why? Have your child explain his/her thinking.

