



4-H Project Connection....

Connecting 4-H military programs in Maryland and Europe to outstanding projects in science, citizenship, leadership and life skills.

Try this Edible Science Activity!

Chemistry in the Kitchen: 3-D Jello Cell Models

What You Need

- Clear plastic produce bags
- Twist ties
- Lemon Jello mix
- Boiling water
- Canned fruits: plums, mandarin oranges, and grapes, etc.
- Paper
- Tupperware container

What's Going On?

Look at a 2-D diagram of plant and animal cells and compare to your 3-D jello model.

Animal cells are different than plant cells. Which of these two cells is the plant cell? The animal cell? What are the main differences between plant and animal cells? Why do you think these differences exist? What are the jobs of different cell organelles?

After you've learned about the differences between plant and animal cells and the roles of cell organelles go ahead and eat your experiment!

Do and Observe

- Select two plastic bags. Put one in the Tupperware container so that the bag completely lines the container. The other should be open on the desk.
- Mix the boiling water with the lemon jello.
- Pour warm lemon jello mixture into the Tupperware and the open bag, almost full.
- Place fruits in the liquid jello to represent organelles. Plums represent nuclei, mandarin oranges represent mitochondria, and grapes represent chloroplasts, etc. Plastic bags represent cell membranes, while container represents cell wall.
- The cells should be closed using twist ties and refrigerated.

Recipe and information courtesy of The Educators Reference Desk: <http://ericir.syr.edu>.

Check out these and other pages for more for variations of this and other edible science based activities.

To make the best better

Team Building Tip: Screaming Viking!

Summary: A fun and whacky exercise as silly as it's name, Screaming Viking is a game in which players sit in a circle in which one person stands in the center. The person in the center points to someone in the circle and instructs them to act out a "screaming viking", a "smurf", a "chia pet", and other funny things. The goal is not to be in the middle at the end of the game. 8-25 people

How to play Screaming Viking:

- Have the person in the middle point at a person seated in the circle and scream "Screaming Viking" or any of the other formations and count to ten. While they are counting, the person who was selected and people directly to the left and right must make the formation.
- If any of the three people mess up or do not respond in time then the person who messes up must go into the middle.

Formations:

- *Screaming Viking Formation:* all three people must make a rowing motion outwardly to the sides while the person in the middle must play his or her fingers to the sides of their head with an index finger pointed upwards like horns. All three must scream loudly.
- *Smurfs Formation:* All 3 interlock arms and sing the smurf song "la-la-la-la la-la-la-la"
- *Chia Pet Formation:* all three must act as a growing chia pet with arms and hands growing upwards. All 3 must shout "ch-ch-ch-chia..."
- *Jello:* the person in the center wobbles like jello while the people on each side hold their arms out, forming a bowl.
- Make up your own formations! The sillier the better!



Created By: Foster Gettys, OMK Student Assistant
Game by: www.group-games.com

Do you have a great activity in science, citizenship, leadership or life skills you would like to share? If so please contact Kendra Wells at klwells@umd.edu



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