

# Instructions for Making an Edible Cell Model

1. Heat up or get help heating up 1 cup of water. In a bowl, mix the hot water with the gelatin powder and stir until the powder dissolves completely.
2. Measure out  $\frac{1}{2}$  cup of ice and place in the bowl. Stir until it melts.  $\frac{1}{2}$  cup of cold water also works.
3. Line your cup with the fruit strip. Make sure that the strip touches the bottom of the cup all the way around.
4. What part of the cell does the fruit strip represent?  

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5. Pour the gelatin into the cup(s) with the fruit strip. Make sure the gelatin is cool or cold, and that it only goes to the top of the strip. You may have enough gelatin to make several models. You may either prepare more cups like you did in step 3, or pour the leftover gelatin into another bowl to set.
6. What part of the cell does the gelatin represent?  

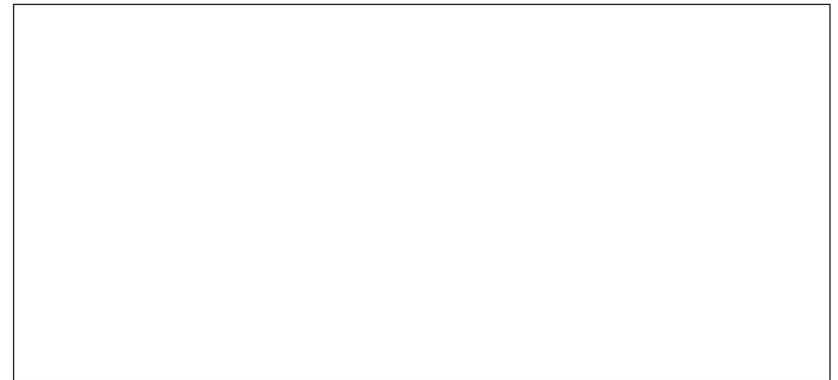
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7. Put the cup(s) in the refrigerator until the gelatin is no longer a liquid. This will take 4–6 hours. Keeping it in the freezer for an hour will help it set faster.
8. Push a gumball into gelatin.

9. What part of the cell does the gumball represent?  

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10. Why are models useful?

11. Draw your cell model and label the parts.



12. Eat your model!

13. (Optional) How is a plant cell different from an animal cell?  

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14. (Optional) Plant cells are different from animal cells in two ways. One is the cell wall, and the other is called a chloroplast. Chloroplasts help plants make food. They're about the same size as the nucleus and long with rounded edges. How could you change your model to turn it into a plant cell model?  

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