

Name:

An Apple a Day

This is a very open ended experiment, with the goal being to extract as much juice from an apple as possible. Your group has been given 4 apples and your job is to invent a different way to get the juice out of each apple and then decide as a group which way is the best. Record your findings and conclusion in the table below.

| | Apple 1 | Apple 2 | Apple 3 | Apple 4 |
|--|---------|---------|---------|---------|
| Initial weight of apple | | | | |
| Method of extraction | | | | |
| Measurement of juice (weight and liquid) | | | | |
| Measurement of pulp (everything but juice) | | | | |
| Conclusions | | | | |

Questions:

1. Which method seemed to work best? Why?
2. Does the juice look the same as the juice you would get in the store? Why might it look different?
3. It takes about 36 apples to make a gallon of apple cider – how many apples would it take using your group's best way?
4. Is there something else you think would have worked better – what is it and why do you think it would work better?
5. Would heating the apple make extraction easier? Why or why not? Do you think it would change the flavor?
6. How do you think this is done commercially?
7. Did the apple variety seem to make a difference? Why do you think it did or did not?