

STATES OF MATTER RELAY

Purpose: Students will identify a picture that matches a given state of matter.

Suggested Grade Level: K

Science SOL: Matter K.5

Equipment/Materials Needed:

1. Pictures of water in different states of matter (see attached). There should be enough pictures for the last team to have a selection of pictures depicting each of the various states of water.
2. Six paper plates— two for each of the three teams

Advance Preparation: Post the pictures on a wall or bulletin board in the room.

Directions:

1. Show the students the pictures that you have posted and review with them the various forms that water can take. Ask them to give examples of solid, liquid and gas forms of water. Discuss how one is hot, while another form is cold etc.
2. Divide the students into three teams and line the teams up facing where you have posted the pictures.
3. Tell the students that you are going to have them ice skate over to the pictures and bring back to you a specific picture—either solid, liquid or gas.
4. Show students how to ice skate using paper plates. Place one foot on each plate and slide across the floor. This works best if you don't lift your feet when sliding.
5. Explain that when you say "go" the students who are first in line will skate over to retrieve a picture that shows water in the form that you have requested.
6. The first person back to the line with a correct picture earns a point for his/her team.
7. Next, the second persons in line skate across to the pictures when you give the "go" signal.
8. Continue playing until all students have had a chance to retrieve a picture.
9. Tally the points and determine the winning team.

Modifications/Variations:

1. Use this ice skating activity to review other concepts.
2. Increase the fun by having the first persons in line skate between the rows to get to the pictures; have the next persons in line skate to the pencil sharpener before they skate to the pictures etc.
3. Follow-up with an art activity where the students draw their own pictures of the different forms of water.

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