

Energy Transfer

This physical activity is a language-learning approach based on the relationship between language and its physical representation or execution. Many students confuse convection and conduction. This activity should help them remember which is which.

Time: 15-20 minutes

Supplies: object for students to toss and pass around

Instructions

1. Divide the students into groups of 5 or 6.
2. Instruct the students to stand in a circle. Use any safe object (one per group) to represent energy. Touch the student's shoulder and hand the object to the student while saying "conduction." Have the students repeat this – touch shoulder, hand object, say conduction. Do this all the way around the circle.
3. Instruct the students to stand in two rows facing each other. Hand a student the object and ask them to toss it across to another student saying "radiation." Make sure every student tosses and receives the object.
4. Call order, ask the student with the object to walk across the row and hand it to another student saying "convection." Have all students take a turn walking it across and handing the object chanting convection.
5. Game on! Randomly call out, convection, conduction or radiation. The groups must respond correctly. Convection- walk it across the row; conduction- hand it to the person next to them in the row; radiation-toss the object across the row.
6. Ask students to write about the activity in their science notebooks.