

Which of the following substances would make a good hot pack or cold pack?

Chemicals:

- ammonium nitrate, NH_4NO_3
 - calcium chloride, CaCl_2
 - sodium chloride, NaCl
 - sodium acetate, NaCH_3COO
 - ammonium chloride, NH_4Cl
-

ACTIVITY #1

1. Teacher will demonstrate a commercial hot pack/cold pack. – teacher will pass them around to save supplies
 2. Take observations
-

ACTIVITY #2

1. Label each beaker with the name of each chemical.
 2. Fill a beaker with 50 mL of water and dissolve 10g of compound in the beaker
 3. Feel the beaker and take observations
-

ACTIVITY #3

FIRST PICK THE BEST HOT PACK CHEMICAL FROM ACTIVITY #2 AND PICK THE BEST COLD PACK CHEMICAL FROM ACTIVITY #2

1. Set up 2 thermometers and fill two beakers with 50 mL of water.
2. Immerse the thermometers in the beaker and record the initial temperature of the water.
3. Add 10g of the chemical to the beaker and give it a stir. The chemical may or may not dissolve totally.
4. Monitor the temperature and record the lowest or highest temperature of that the solution reaches.

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