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| Lesson Plan: Science-Hot & Cold Temperatures **Insulation**  |
| **Purpose: (the why of the lesson)**-Students will learn about insulation-Identify materials that insulate in keeping things hot or cold-Identify places where insulation is used | **SLE** specific learning expectations(focus of curriculum):-Science Gr. 2 D 2-9.1, 2-9.2, 2-9.8 |
| **Materials/Resources:** -6 thermometers -parachute-1 plastic bag -1 piece of saran wrap-1 hoodie -1 pillowcase-1 piece of tinfoil -1 windbreaker  |
| **Intro/Motivator**: (focus attn., activate prior knowledge)-Coming to school today what did you wear to keep warm? |
| **Development**: Main content, ideas/info, examples)-Explain what an insulator is-Talk about different types of insulators (ex. Mittens/toques in winter, igloos) -Spilt students into 6 groups according to the rows of the seating plan-Ask students to wrap/place their thermometer into the material -Tell students we are going to take/leave the thermometers outside-Ask each group to come up with a hypothesis about their experimentAsk students to line up at the door, go put coats on and take the thermometers outside-As we wait tell the students we are going to be using a parachute but if anyone fools around/ignores instructions we are putting it away-Ask the students to line up at the door-In the space infront of the office ask students to sit in a circle and spread out the parachute-Do the mushroom with the parachute -As we are all sitting in the parachute discuss the various groups hypothesis’ as a class | **Guided Practice**; (application of concepts, activities)-Ask students what is happening as we sit in the parachute (gets warmer- insulated)-Back in the class ask students to compare their thermometers, what happened? |
| **Closure:** (check for understanding)-Out of and , which would be a better insulator? | **Assessment:** (retain knowledge, relate to prior knowledge)-Student’s hypothesis and explanation of experiment outcomes-Class discussion  |
| **Modifications** : (adaptations):-Use blow dryer instead of outside -Instead of using thermometers, wrap a bottle, film canister, etc.-Use different materials to wrap the thermometer in | **Extensions:**-Write a story about what happened-Complete a worksheet |

***Reflections:*** *(what worked and what didn’t)*