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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 experiment  Ask 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)*