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| **Subject:** | Science |
| **Title:** | Streamlining Hockey |
| **Grade Level:** | 6 |
| **Purpose:** | * Students will apply their knowledge of aerodynamics to improve hockey equipment to become more streamlined. |
| **Curricular**  **Connections:** | * Recognize that streamlining reduces drag, and predict the effects that specific design changes have on drag. * Construct devices that move through air, and identify adaptations**.** |
| **Materials:** | * White board or SmartBoard or chart paper etc. * Pictures of hockey equipment (or the equipment itself). * Paper or visual journal to sketch their designs. * Materials to make a model of equipment (clay, cardboard, paper etc). \* For extension activity. |
| **Activity:** | 1. As a class, review aerodynamics. Write down information on the whiteboard or SmartBoard etc. 2. Name different hockey equipment: skates, helmets, gloves etc. Provide pictures of the equipment, or show them actual equipment if possible. 3. Divide students into groups of 4 or 5. Each group will design equipment which is more aerodynamic or streamlined. 4. Students will sketch their new equipment, label the adaptations and describe why they made those adaptations. Explain **why** it would make the equipment more aerodynamic. 5. Students then share the changes they made to the various types of equipment, with their classmates. |
| **Extension:** | * Students gather materials to make a model of their new aerodynamic design, highlighting their adaptations. |
| **Assessment:** | * Check for participation during class discussion and while working in groups. * Hand in sketches, written information, and a model (if doing extension). |