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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.
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| **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**.**
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| **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.
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| **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.
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| **Extension:** | * Students gather materials to make a model of their new aerodynamic design, highlighting their adaptations.
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| **Assessment:** | * Check for participation during class discussion and while working in groups.
* Hand in sketches, written information, and a model (if doing extension).
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