



Virtual STEAM

Science

Animal Survival Challenge

Goal: I can design a product to keep people safe in arctic weather.

Indicator: SC.1.6.2.A Use materials to design a solution to a human problem by mimicking how plants and/or animals use their external parts to help them survive, grow, and meet their needs.

Materials:

- 1 - 5x7 Cardboard
- 5 - Pipe Cleaners
- 10 - Cotton balls
- 5 - Construction paper
- 3 - 4x4 Felt Square
- 10 - Feathers
- 12 - Address Labels / Tape
- Glue Stick
- Scissors (not included)



Instructions:

1. Watch the beginning of the following YouTube Video for background knowledge:
<https://youtu.be/waasDglAZ04>
2. On a sheet of paper, design a product that mimics an arctic animal that would keep people safe in arctic weather. This could be related to shelter, food, or clothing.
3. Explain what your product is, how it will work, and how it mimics characteristics of arctic animals.
4. Use the materials included in this kit as well as items from home as well to design a prototype.
5. Document the challenge using video, photos, drawings, etc.
6. Have fun!

Book Extension:

[Amazing Arctic Animals \(Penguin Young Readers, Level 3\)](#)

Extension Activity:





- Design something for other habitats such as desert, rainforests, ocean, etc.

Ignite Our Future Connection:

- **Friendship** – Mutual feelings of care, respect, admiration, concern and love between individuals is what makes a friendship. Lessons cover how to be a good friend, how to make friends and ways to strengthen existing friendships.
- **Generosity/Selfless Giving** – Putting others before ourselves. Being willing to give or share with those in need without expecting anything in return. Lessons explore ways we can be generous in our daily lives and help others less fortunate than ourselves.

