3-5 Lesson





Field Plastic

Grade Level: 3 rd -5 th	Topic: Corn	Estimated Time: 50 minutes
Brief Lesson Description: Students will describe how plant-based products are used in daily life. Then, students		
will make observations, predictions and write a hypothesis while investigating the differences between a		
biodegradable packing peanut and a petroleum-based packing peanut. In groups, students will make a corn-based		

Next Generation Science Standards:

plastic to take home.

- **3-5ETS1-1**: Define a simple design problem reflecting a need or a want that includes specified criteria for success and constraints on materials, time, or cost.
- **4-ESS3-1:** Obtain and combine information to describe that energy and fuels are derived from natural resources and their uses affect the environment.
- **5-ESS3-1:** Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.
- **5-PS1-4:** Conduct an investigation to determine whether the mixing of two or more substances results in new substances.

National Agricultural Literacy Outcomes:

- **T1.3-5 e:** Recognize the natural resources used in agricultural practices to produce food, feed, clothing, landscaping plants, and fuel (e.g., soil, water, air, plants, animals, and minerals).
- **T2.3-5 b:** Distinguish between renewable and non-renewable resources used in the production of food, feed, fuel, fiber (fabric or clothing) and shelter.
- **T4.3-5 d:** Provide examples of science being applied in farming for food, clothing, and shelter products.
- **T5.3-5 b:** Discover that there are many jobs in agriculture.

Specific Learning Outcomes:

- 1. Students will identify renewable and nonrenewable resources and define biodegradable.
- 2. Students will compare petroleum and plant-based packing peanut by running a series of tests and comparing the results.
- 3. Students will identify types of physical properties.
- 4. Students will describe how plants can be used in everyday products such as food, fuel and fiber.