

Next Generation **Science** Standards Supported through DIY Online Wheat Week™

- 3-LS3-1** – Analyze and interpret data to provide evidence that plants and animals have traits inherited from parents and that variation of these traits exists in a group of similar organisms.
- 4-LS1-1** - Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.
- 4-ESS2-1** - Make observations and/or measurements to provide evidence of the effects of weathering or the rate of erosion by water, ice, wind, or vegetation.
- 4-ESS3-2** - Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.
- 5-ESS2-1** - Develop a model using an example to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact.
- 5-ESS3-1** - Obtain and combine information about ways individual communities use science ideas to protect the Earth's resources and environment.

Washington State **Social Studies** Learning Standards Supported through DIY Online Wheat Week™

- 2.2.1 Understands the basic elements of Washington State's economic system, including agriculture, businesses, industry, natural resources, and labor.**
 - Explains components of Washington State's agricultural industry, including the natural resources of land and water, the farmers and laborers, the distributors, and the consumers of agricultural products.
- 3.3.1 Explains that learning about the geography of Washington State helps us understand global trade.**
 - Explains how the climate and land in Eastern Washington allow farmers to grow apples for trade with other countries.
 - Explains how the ports of Tacoma and Seattle enable Washington to be a gateway for products to and from Pacific Rim countries.

Learning Targets for DIY Online Wheat Week™

- Students will understand the concept of a system. Students will know that a plant (wheat) is a system.
- Students will know that all living things have DNA. Wheat is a plant, plants are living things, therefore wheat has DNA. Students will know how Norman Borlaug helped feed people.
- Students will understand what soil erosion is and how it impacts farms (and land).
- Students will understand that plants (wheat) are part of the water cycle.
- Students will understand that wheat is a plant that can give us energy.