



## **Next Generation Science Standards addressed in Elephantanatics Lesson Plans**

The following Elephantanatics lesson plans can help you to address the following NGSS standards. This is not an exhaustive list and the lessons may address additional NGSS and Common Core standards. Use the links provided on each topic to look at the Performance Evaluations, Science & Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts at [www.nextgenscience.org](http://www.nextgenscience.org)

### **Standards**

Elementary (K-5th grades)

2nd- [Interdependent Relationships in Ecosystems](#)

3rd- [Interdependent Relationships in Ecosystems: Environmental Impacts on Organisms](#)

3rd- [Inheritance and Variation of Traits: Life Cycles and Traits](#)

3rd- [Weather and Climate](#)

4th- [Structure, Function, and Information Processing](#)

3rd-5th- [Engineering Design](#)

Middle School (6th-8th grades)

- **Life Science**

- [Interdependent Relationships in Ecosystems](#)

- [Matter and Energy in Organisms and Ecosystems](#)

- [Growth, Development, and Reproduction of Organisms](#)

- [Natural Selection and Adaptations](#)

- [Ecosystems: Interactions, Energy, and Dynamics](#)

- **Earth and Space Sciences**

- [Human Impacts](#)

High School (9th-12th grades)

- **Life Science**

- [Matter and Energy in Organisms and Ecosystems](#)

- [Interdependent Relationships in Ecosystems](#)

- [Inheritance and Variation of Traits](#)

- [Natural Selection and Evolution](#)

- [Ecosystems: Interactions, Energy, and Dynamics](#)

- **Earth and Space Sciences**

- [Human Sustainability](#)



## **Primary Elephanatic Lesson Plans & NGSS**

### **Lesson Plan 1- Different Lives**

- 2nd- Interdependent Relationships in Ecosystems
- 3rd- Interdependent Relationships in Ecosystems: Environmental Impacts on Organisms
- 3rd- Inheritance and Variation of Traits: Life Cycles and Traits
- 4th- Structure, Function, and Information Processing

### **Lesson Plan 2- Elephants Matter Too**

- 2nd- Interdependent Relationships in Ecosystems
- 3rd- Interdependent Relationships in Ecosystems: Environmental Impacts on Organisms
- 3rd- Inheritance and Variation of Traits: Life Cycles and Traits
- 4th- Structure, Function, and Information Processing

### **Lesson Plan 3- Ivory Free Canada**

- Common Core State Standards for ENGLISH LANGUAGE ARTS & Literacy
  - [Writing Standards K–5](#)
- 4th- Structure, Function, and Information Processing
- MS- Human Impacts

### **Lesson Plan 4- Are Elephants Colorblind**

- 3rd- Inheritance and Variation of Traits: Life Cycles and Traits
- 4th- Structure, Function, and Information Processing

### **Lesson Plan 5- Ivory Is For Elephants – PPT Presentation**

2nd- Interdependent Relationships in Ecosystems

3rd- Interdependent Relationships in Ecosystems: Environmental Impacts on Organisms

## **Intermediate Elephanatic Lesson Plans & NGSS**

### **Lesson Plan 1- Drawing a Line**

- MS- Interdependent Relationships in Ecosystems
- MS- Matter and Energy in Organisms and Ecosystems



- MS- Human Impacts
- HS- Human Sustainability

### **Lesson Plan 2- Elephants and Ivory**

- MS- Human Impacts
- HS- Human Sustainability
- Common Core State Standards for English Language Arts & Literacy
  - [Reading Informational Text 6-12](#)

### **Lesson Plan 3- Letters for Life – Ivory-Free Canada**

- MS- Human Impacts
- HS- Human Sustainability
- Common Core State Standards for English Language Arts & Literacy
  - [Writing Standards K–5](#)
- Common Core State Standards for English Language Arts & Literacy
  - [Writing Standards 6-12](#)

### **Lesson Plan 4- One Mouthful At A Time: How Forest Elephants Fight Climate Change**

- MS- Interdependent Relationships in Ecosystems
- MS- Matter and Energy in Organisms and Ecosystems
- MS- Human Impacts
- MS- Ecosystems: Interactions, Energy, and Dynamics
- HS- Ecosystems: Interactions, Energy, and Dynamics
- HS- Human Sustainability

### **Lesson Plan 5- Anthrozoology**

- MS- Human Impacts
- HS- Interdependent Relationships in Ecosystems
- HS- Human Sustainability

### **Lesson Plan 6- Effects of Elephant Poaching**

- MS- Human Impacts
- HS- Matter and Energy in Organisms and Ecosystems
- HS- Interdependent Relationships in Ecosystems
- HS- Inheritance and Variation of Traits
- HS- Human Sustainability

### **Lesson Plan 7- Rewilding**



- MS- Interdependent Relationships in Ecosystems
- MS- Matter and Energy in Organisms and Ecosystems
- MS- Human Impacts
- HS- Matter and Energy in Organisms and Ecosystems
- HS- Interdependent Relationships in Ecosystems
- HS- Human Sustainability
- Common Core State Standards for ENGLISH LANGUAGE ARTS & Literacy
  - [Writing Standards 6-12](#)

#### **Lesson Plan 8- Biodiversity**

- MS- Interdependent Relationships in Ecosystems
- MS- Human Impacts
- HS- Interdependent Relationships in Ecosystems
- HS- Human Sustainability

#### **Lesson Plan 9- Increase of Online Ivory Sales during Covid-19**

- MS- Human Impacts
- HS- Human Sustainability

### **Canadian Curriculums Ontario and BC**

**PLEASE NOTE\* - Lesson plans can be modified to suit Provincial Curriculum Standards in ALL Provinces in Canada**

#### **BC Curriculum – Social Studies**

Grade 6 - Social Studies - Complex Global Problems – suggested lesson plans:

- Ivory-Free Canada
- Biodiversity
- One Mouthful At A Time - Climate Change
- Rewilding
- Increase of Online Ivory Sales During Covid-19



## **BC Curriculum – Science**

Grade 4 – Science - Curricular Competency – suggested lesson plan:

- Biodiversity
- One Mouthful At A Time - Climate Change

Grade 7 – Science – Curricular Competency – suggested lesson Plan:

- One Mouthful at a time – Climate Change
- Biodiversity
- Rewilding

Grade 11 – Environmental Science – suggested plans:

- Biodiversity
- One Mouthful at a Time – Climate Change
- Rewilding

## **Ontario Curriculum - Science**

Grade 2 – Science - Life Systems Growth and changes in animals – suggested plans:

- Elephants Matter Too
- Different Lives

Grade 4 – Science - Life Systems – Habitats and Communities – suggested plans:

- Rewilding
- Biodiversity

Grade 6 – Science – Understanding Life Systems – suggested plan:

- Biodiversity