

# Soybean Science Kit Lending Form

Ordered by \_\_\_\_\_

School: \_\_\_\_\_

Shipping Address: \_\_\_\_\_

\_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Order Date: \_\_\_\_\_

Date Required: \_\_\_\_\_

To be filled out by KSB Staff:

Date shipped: \_\_\_\_\_

Date to be returned: \_\_\_\_\_

\*Due to limited time and resources, each kit must be returned promptly. For each week the kit is not returned there will be a \$25 late fee.

**Kentucky Soybean Board**  
P.O. Box 30/1001 US Hwy. 62  
Princeton, KY 42445  
1-800-232-6769  
270-365-7214 (Office)  
270-365-2506 (Fax)  
www.kysoy.org  
bkinder@kysoy.org



## Common Core Standards

### Lesson 1: Chains in the Classroom

Science: 3.LS.1.1, 4.LS.1.1, RI.3.7 English: CC.3.L.5a, CC.3.L.5b, CC.3.R.1.1, CC.3.R.L.1, CC.3.R.1.7

### Lesson 2: Germinating and Growing Soybeans

Science: 3.LS.1.1, 3.LS.3.1, 3.LS.4.4, LS.1.B, 5.LS.1.1, 4.LS.1.1 Math: CC.3.MD.2, CC.4.MD.1, CC.4.NBT.4 English: CC.3.R.1.1, CC.3.R.1.7, CC.3.R.L.1

### Lesson 3: Polymers in Your Life

Science: 3.LS.1.1, 3.LS.3.1, 3.LS.4.4, LS.1.B, 5.LS.1.1, 4.LS.1.1 English: CC.3.R.1.1, CC.3.R.1.7, CC.3.R.L.1

### Lesson 4: It Does What? Oobleck

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.R.1.7, CC.1.R.1.4 Math: CC.3.MD.2

### Lesson 5: Links in the Classroom

Science: 4.LS.1.1, 4.LS.1.2 English: CC.1.R.1.4, CC.3.R.1.7

### Lesson 6: It Does What? Gluep

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.R.1.7, CC.1.R.1.4 Math: CC.3.MD.2

### Lesson 7: What's in the Soybean?

Science: 3.LS.3.1, 3.LS.3.2, 3.LS.4.2, 3.LS.4.4, 4.LS.1.1, 5.LS.1.1 English: CC.3.L.5b, CC.3.R.1.1, CC.3.SL.1c, CC.3.SL.6, CC.4.L.4, CC.4.L.4a, CC.5.L.4a

### Lesson 8: Chromatography Using Soybean Leaves

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.R.1.1, CC.3.SL.1.C Math: CC.3.MD.2, CC.4.MD.1, CC.4.MD.2

### Lesson 9: Many Kinds of Glue

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.R.1.1, CC.3.SL.1c, CC.3.R.L.10, CC.3.SL.1 Math: CC.3.MD.2

### Lesson 10: Glue Test

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.R.1.1, CC.3.SL.1c Math: CC.3.MD.2

### Lesson 11: Chains in Ink

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.R.1.1, CC.3.SL.1c Math: CC.3.MD.2

### Lesson 12: Polymers Everywhere Evaluation

Science: 3.LS.1.1, RI.3.7, 4.LS.1.1, LS.1.B, 5.LS.1.1, 3.LS.3 English: CC.3.L.5b, CC.3.R.1.1, CC.3.SL.1c, CC.3.SL.6, CC.4.L.4, CC.4.L.4a, CC.5.L.5a, Math: CC.3.MD.2

### Lesson 13: Marbleizing

Science: 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c, CC.4.L.5b, CC.4.R.L.1, CC.4.SL.1c Math: CC.3.MD.2

### Lesson 14: Salad Dressing

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c Math: CC.3.MD.2

### Lesson 15: Lip Balm

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4, 3.LS.3.2, 4.LS.1.1 English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c Math: CC.3.MD.2

### Lesson 16: Soybean Hand Cream

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c Math: CC.3.MD.2

### Lesson 17: Oil and Water Emulsions

Science: 4.PS.3.1, 4.LS.1.1, 5.PS.1.4 English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c Math: CC.3.MD.2

### Lesson 18: Candles and Crayons

Science: 4.LS.1.1, 5.PS.1.4 English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c Math: CC.3.MD.2

### Lesson 19: Putt-Putt Boats

Science: 3.PS.2.2, 4.PS.3.1, 4.PS.3.4 English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c Math: CC.MD.7

### Lesson 20: Making a DNA Model

Science: 3.LS.3.1, English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c Math: CC.4.MD.1

### Lesson 21: DNA Extraction and Spooling

Science: 5.PS.1.1, 5.PS.1.2, 5.PS.1.3, 5.PS.1.4 English: CC.3.L.5b, CC.3.R.L.1, CC.3.SL.1c Math: CC.3.MD.2, CC.4.MD.1

The Common Core Standards are available by contacting the Kentucky Department of Education.



# Soybean Science Kit

## Need Something New to Excite your Students?

The Kentucky Soybean Board has 4 Soybean Science Kits for your classroom to use. Each teacher may use the kit for free of charge for two weeks.

### About the Soybean Science Kit

The Soybean Science Kit program is designed to assist teachers in meeting the National Science Education Standards, particularly with 4<sup>th</sup> to 9<sup>th</sup> grade interdisciplinary curriculum.

The kit is a complete science lab that contains everything necessary for 30 students to participate in 21 hands-on experiments and exercises (with the exception of a few readily available household materials), including two Biotech lessons, an interactive CD and an instructional videotape/DVD.

This kit is not a toy...it is a serious soybean science tool that is about four times bigger than a breadbox and weighs 50 pounds. More than 4,000 kits are currently being used in schools. These kits continue to receive outstanding evaluations from teachers.

To participate in the lending program please fill out the enclosed lending form. The kits will be loaned out on a first come first serve basis. The kit will be shipped to you via UPS.

**When your two week lending period is complete, call or go online to schedule a pick up. Tell UPS to bill the recipient with the account number provided- this information will be included in your rental instructions folder. If you do not use the appropriate account information you will responsible for the charges.**

Remember to be considerate of others and return the kit on time. For each week the kit is being returned late there will be a \$25 charge.

After using the kit, teachers may purchase a kit, materials and the accompanying lesson demonstration videotape by calling 317-347-3620 or online at [www.soybeansciencekit.com](http://www.soybeansciencekit.com).

**For more information about the Soybean Science Kit, please contact the Kentucky Soybean Board at 1-800-beansoy (232-6769) or [www.kysoy.org](http://www.kysoy.org).**



### Lessons Included:

#### Polymer Lessons

- Chains in the Classroom
- Germinating and Growing Soybeans
- Polymers in Your Life
- "It Does What???" –Oobleck
- Links in the Classroom
- "It Does What???" –Gluep
- What's in a Soybean?
- Chromatography Using Soybean Leaves
- Many Kinds of Glue
- Glue Test
- Chains in Ink
- Polymers are Everywhere Evaluation

#### Oil Lessons

- Marbleizing
- Salad Dressing
- Lip Balm
- Hand Cream
- Oil and Water Emulsions
- Candles and Crayons
- Putt-Putt Boats

#### Biotechnology

- DNA Modeling
- DNA Extraction

#### Interactive CD-ROM

- Growing
- Processing
- Products