# ARTHROPODS

3-8 Science Unit Study

THE GOOD AND THE BEAUTIFUL

# ARTHROPODS

CREATED BY THE GOOD AND THE BEAUTIFUL TEAM

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# **Student Journal**



All The Good and the Beautiful science units include activities in a student journal. Each student should have his or her own student journal, and the parent

or teacher will direct the student regarding when to complete the activities in the lessons. This book can be purchased by going to **goodandbeautiful** .com/science and clicking on the *Arthropods* unit link.

# **Science Wall**



All The Good and the Beautiful science units include vocabulary words to be placed on your science wall, which is a wall or trifold presentation board in

your learning area on which you can attach the vocabulary words and other images. Cut out the vocabulary word cards at the beginning of the unit. The course will indicate when to place them on the wall.

# **Lesson Preparation**



All The Good and the Beautiful science units include easy-to-follow lesson preparation directions at the beginning of each lesson.

# Activities



Many of The Good and the Beautiful science lessons involve hands-on activities. An adult should always closely supervise children as they participate

in the activities to ensure they are following all necessary safety procedures. This unit does not have any experiments.

# **Unit Videos**



Some lessons include videos that were created by The Good and the Beautiful. Have a device available that is capable of playing the videos from

**goodandbeautiful.com/sciencevideos** or on the Good and Beautiful Homeschool app.

# **Content for Older Children**



Some lessons include extra content that is more applicable for older children (grades 7–8). Parents or teachers may choose to skip this content if instructing only younger children.

# Versions

This course is reviewed and revised periodically to keep information as up to date as possible. This version is the third edition of this unit.





The books below are optional read-aloud books that complement this unit. These books can be purchased as a book pack by going to **goodandbeautiful.com/science** and clicking on the *Arthropods* unit link.

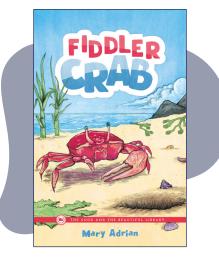


*The Boy Who Loved Bugs: The Story of Jean-Henri Fabre* By Molly Sanchez



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*The Story of Maria Merian* By Ashlee Klemm



Fiddler Crab By Mary Adrian

# CORRELATED BOOKS •

The Good and the Beautiful Library has several books that correlate well with the *Arthropods* unit. It can be a wonderful experience for children to read books at their levels that are related to the subjects they are learning. The library includes both fiction and nonfiction books organized according to reading level. Find the correlated books by going to **goodandbeautiful.com/science** and clicking on the *Arthropods* unit product page.





## How the Extensions Work

Each lesson has an optional lesson extension for children in grades 7–8. Complete the lesson with all the children, and then have the older children complete the self-directed lesson extension. These extensions are located in the *Grades 7–8 Student Journal*.

# **Answer Key**

The answer key for the lesson extensions can be found on the free Good and Beautiful Homeschool app in the science section. Visit **goodandbeautiful** .com/apps for information on accessing the app. The app can be accessed from a computer, phone, or tablet.

#### Flexibility

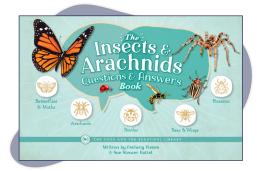
The amount of time it will take to complete each lesson extension will vary for each child. The average time is about 10–15 minutes per extension. Parents, teachers, and children may choose to omit parts of the lesson extension if desired. Encourage the children to stretch their capabilities, but also reduce work if needed.

## **Taking Notes**

Some of the grades 7–8 lesson extensions have the children summarize the material read. Teach the children to look for key information, summarizing the most important points. Students can also add notes with their thoughts and the facts that are most interesting to them.

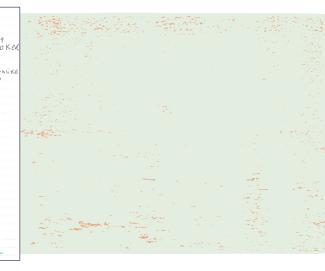
## **Optional Grades 7–8 Reading Book**

We recommend *The Insects & Arachnids Questions & Answers Book* as extra reading for students in grades 7–8. This book can be purchased by going to **goodandbeautiful.com/science** and clicking on the *Arthropods* unit link.



The Insects & Arachnids Questions & Answers Book By Anthony Klemm and Sue Stuever







# **SUPPLIES NEEDED**

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This section lists all the extra supplies needed for the activities within the lessons. There are no experiments in this unit.

#### Lesson 1

scrap paper

#### Lesson 2

none

#### Lesson 3

- brown clay (optional)
- 1 glow stick per child (not yet activated) (optional)
- small piece of silk fabric (optional)

#### Lesson 4

- small bowl
- candy or snack
- handful of cheese puffs
- paper towel
- sesame seeds
- <sup>1</sup>/<sub>8</sub>-tsp measuring spoon
- small amount of honey
- 3 different essential oils or extracts (suggested: lemon, lavender, and vanilla)
- cotton balls

#### **Optional Supplies:**

- baking sheet
- parchment paper
- saucepan
- metal whisk
- candy thermometer
- 1 c honey
- ¼ c peanut butter
- ½ tsp pure vanilla extract

#### Lesson 5

- 1 game piece (or small piece of cereal, coin, etc.) per child
- 1 dice

#### Lesson 6

- ant farm (optional)
- 1 small snack or piece of cereal per child

#### Lesson 7

none

#### Lesson 8

- 6 string or yarn pieces (15 ft, 12 ft, 10 ft, 8 ft, 6 ft, 4 ft)
- transparent tape
- a few drops of vegetable or olive oil

#### Lesson 9

- crayfish dissection kit (optional)
- glue or glue stick

#### Lesson 10 (optional supplies)

- a trapped arthropod OR
- a sheet or blanket OR
- a shovel; clear, pint-sized container; and small piece of fruit

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