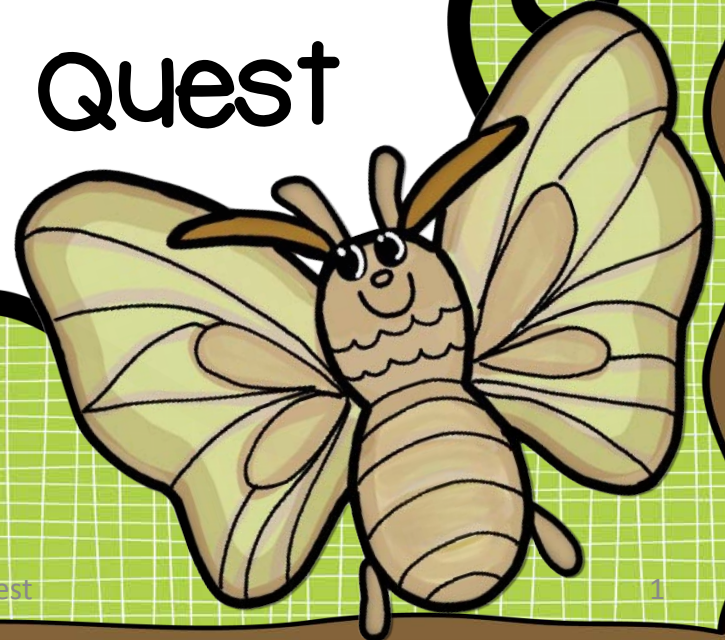


The Life Cycle of A Silkworm: QR Code web Quest



Dear Educator,

Thank you for your purchase! Using QR codes when doing online research alleviates any complications when having students go to type in a web address. You control where they go entirely, which makes it a safer way to go online to trusted sites. I've chosen 5 sites for this web quest, and have tried to keep it fairly simple for first timers. ☺ There are 6 cards to print on cardstock and laminate. You will need a mobile device to use this in your class and a QR code reader app. (This app is mostly free to download.) See my mini poster for how-to scan a QR code if you are new to this technology.

You may wish to form groups of 3-4 and assign one card per group and rotate through all 6 cards, or assign all 6 cards to every group at once. This all depends on how many mobile devices you have access to in your classroom. This web quest will work even if you only have 1 device. You can pair students, and set up turns for other groups to rotate through, until everyone gets a turn.

Make sure students read each question carefully on the cards and answer it on their recording sheet. *I highly recommend testing this web quest out before attempting it with your class! It will run much more smoothly if you have run through it yourself first.*

Other teaching suggestions:

-Start with the KWL chart and fact file sheet to provide build background.

-Use the silkworm life cycle poster and diary template as culminating activities.

Use the websites on page 21 for helpful tips if you are interested in growing silkworms in your own classroom.

I hope you'll take a minute to leave feedback as well as follow my [store](#) on TpT. *Please keep in mind if there is a technical issue with this product to message me. Instead of rating it based on a problem, it may easily be fixed by contacting me.*

Thank you again and enjoy this exciting integrated activity!

Emily Gibbons, M.Ed.

www.theliteracynest.com

Scan here to find and like my Facebook page!



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How To Scan A QR Code

*A QR code stores a web address for you, so you don't need to type it into a web browser.

1. Open a QR code reader app.
2. Hover your tablet screen in front of the QR code.
3. The app will scan the code by running a horizontal line up and down the code to read it.
4. Once the code is read, you will be redirected to the website.



Directions:

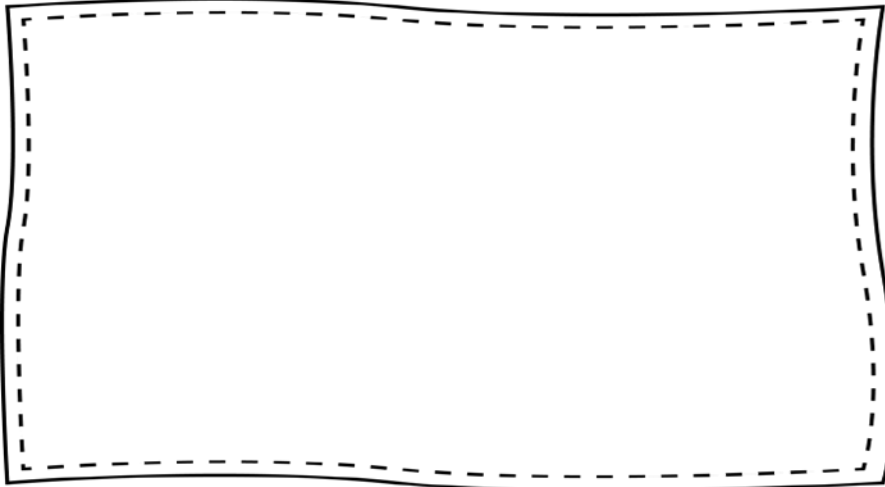
Materials: 6 task cards, recording sheet,
mobile device

1. Open the QR reader app on your device.
2. Read the question on the card with your group members out loud.
3. Scan the QR code. Read the information on the website carefully to find the correct answer.
4. Record your answer on your recording sheet.

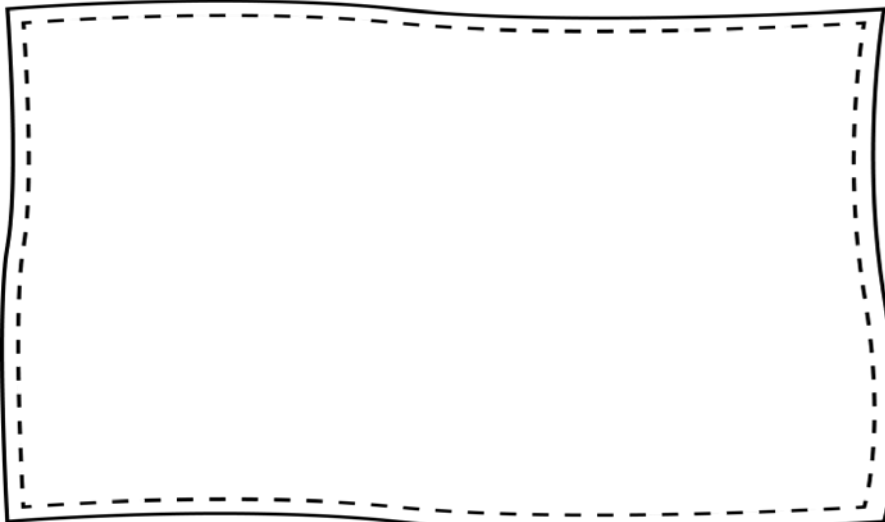


Name: _____

What I know...



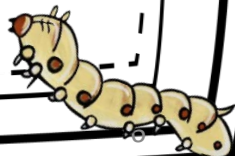
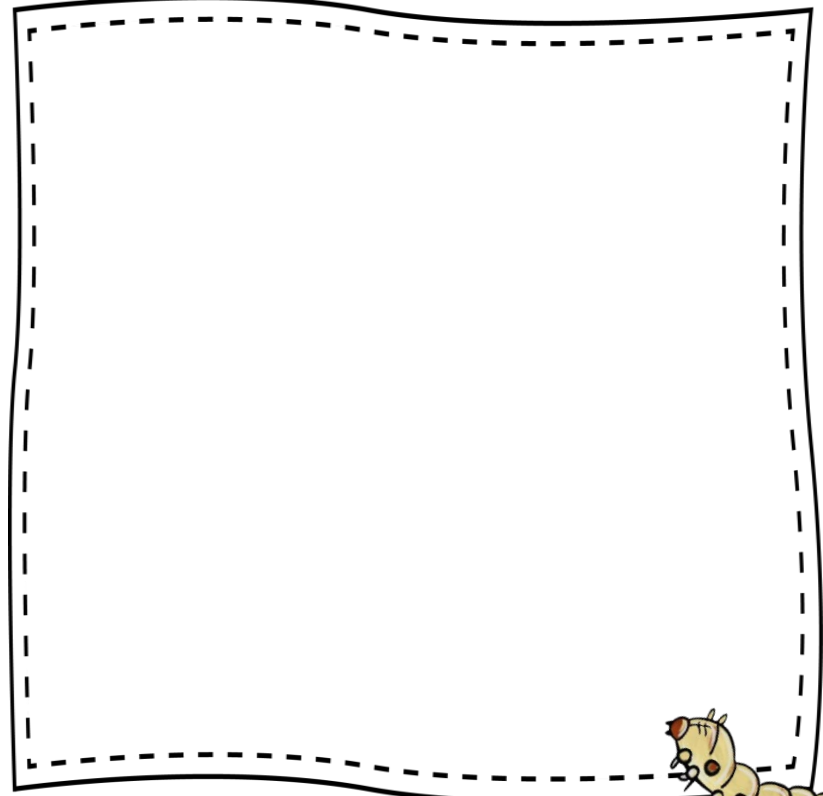
What I want to know...



Date: _____

Fill in the KWL Chart
about silkworms.

What I have learned...



Silkworms Fact File



Fast facts about silk:

- Real silk is an expensive and natural fiber.
- Silk was first produced in China.
- A silkworm moth's cocoon is made from one long strand of silk.
- It takes about 3,000 cocoons to make one pound of silk!

What do silkworms and bees have in common? They are the only two insects that people have ever domesticated, or tamed successfully. Thousands of years ago, silkworm moths lived in the wild. The Chinese found out how to take the cocoon of a silkworm in its pupa stage and weave its silky thread. It became so popular that over time, silkworm moths were no longer seen in the wild, and could not defend themselves anymore.

Today, we can study the lifecycle of a silkworm moth and its fascinating metamorphosis, or change that it goes through. It's important to provide a safe place if you obtain, or get silkworm eggs and wish to watch them grow. A shoebox works well to create a habitat for them. Silkworm caterpillars love eating TONS of mulberry leaves. They like to have a place to spin their cocoon such as an old egg carton or a cardboard toilet paper tube. Enjoy watching these amazing creatures transform!

Stage #1: A female moth lays her eggs.

Question:

1. About how many eggs will a female moth lay?
2. About how long will it take for them to hatch?



Stage #2: Tiny caterpillars (larva) hatch from their eggs.



Question:

1. what do larva eat?
2. How long will they eat?



Stage #3: The Growing Caterpillar



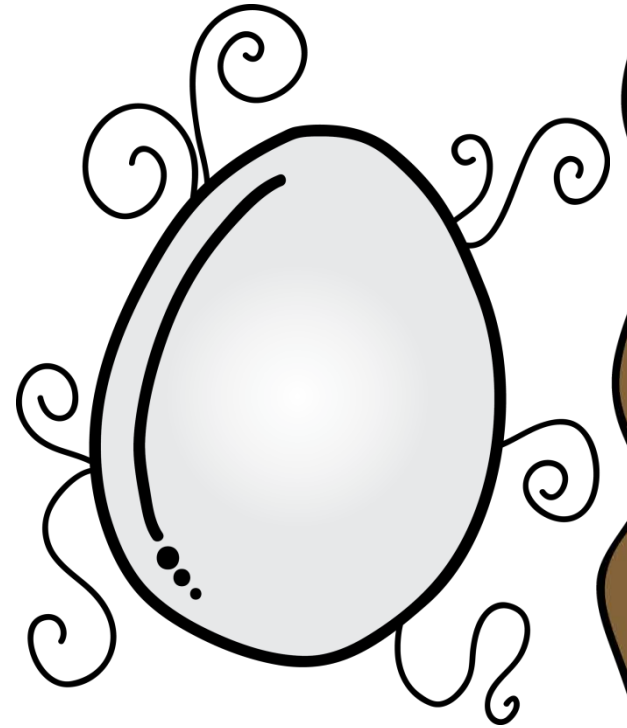
Question:

1. what are the stages of growth called?
2. How many times will a caterpillar outgrow their own skin?



Stage #4: The Cocoon

Question:
How does a
caterpillar spin its
cocoon?



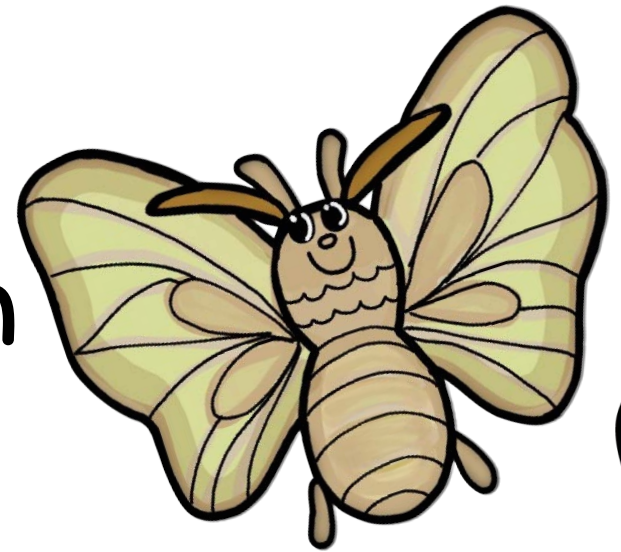
Stage #5: Inside A Cocoon

Question: How long will the caterpillar stay in the pupa stage in a cocoon?



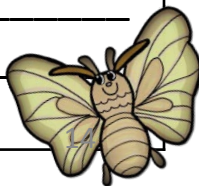
Stage #6: A moth emerges from its cocoon.

Question: what does
the moth look like when
it comes out of the
cocoon?



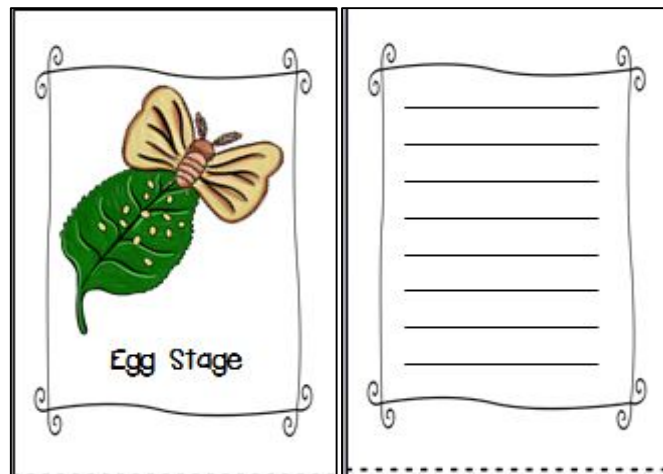
Name: _____ Silkworm Life cycle Recording Sheet Date: _____

Stage # 1 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	Stage # 2 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	Stage # 3 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Stage # 4 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	Stage # 5 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>	Stage # 6 <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>



Directions for Silkworm Life Cycle poster

1. Cut out all 8 cards on pages 16 and 17 for a total of 16 cards.
2. Arrange the 7 picture cards from page 16 in order. (see picture below). Save the title card.
3. Write about the stage in the life cycle the silkworm is going through on the cards from page 17. Match these cards with your picture cards.
4. On a large piece of construction paper, arrange all your cards in a large circle. Glue them in the correct order. Glue the title card from page 16 in the center.
5. Draw curved arrows connecting each stage of the silkworm's life cycle.



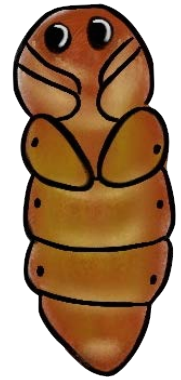


Egg Stage



pupa Stage

The Life Cycle of a Silkworm



pupa



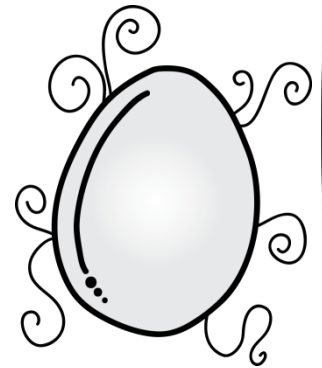
Caterpillar Stage



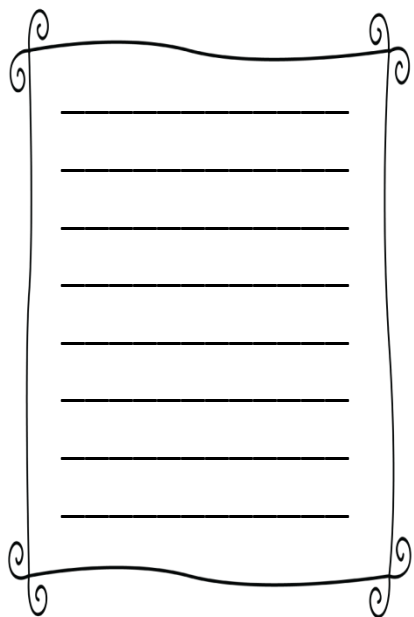
Moth Stage



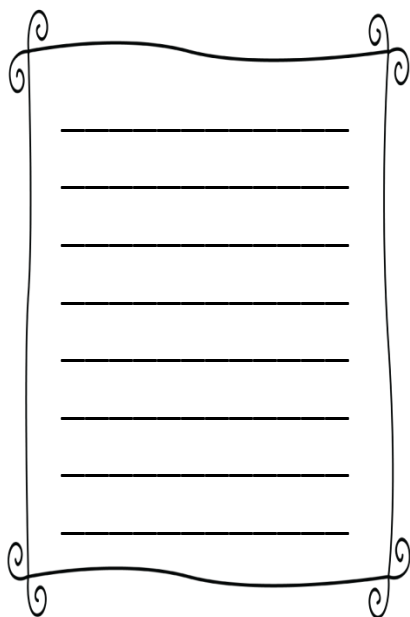
Larva stage



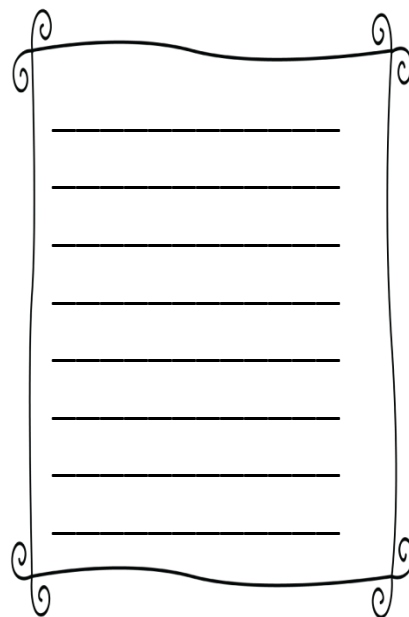
Cocoon Stage



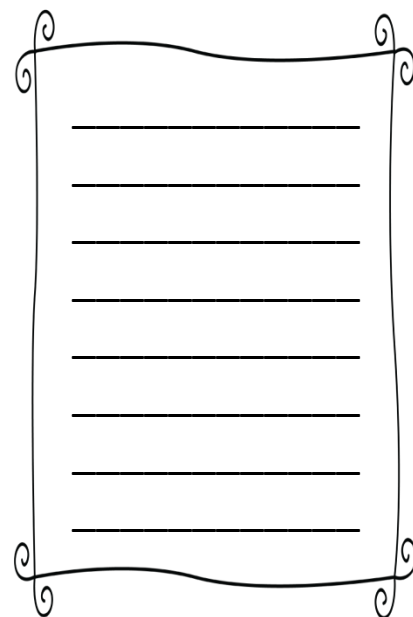
A decorative rectangular frame with ornate, swirling corners. Inside the frame are ten horizontal lines for writing.



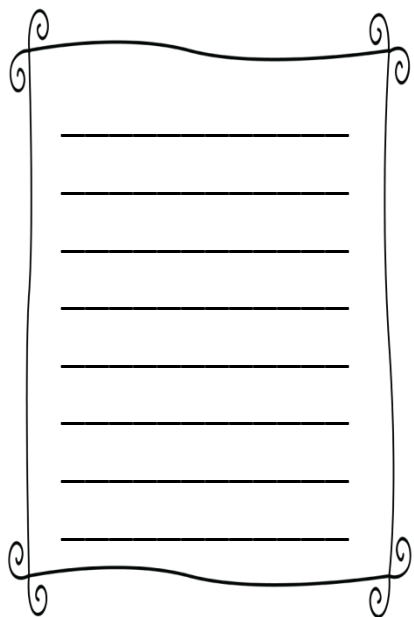
A decorative rectangular frame with ornate, swirling corners. Inside the frame are ten horizontal lines for writing.



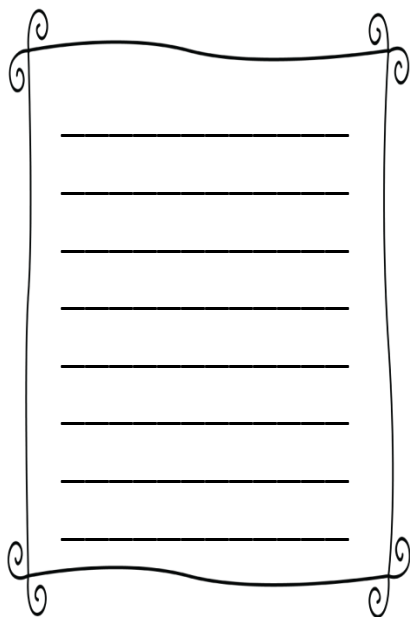
A decorative rectangular frame with ornate, swirling corners. Inside the frame are ten horizontal lines for writing.



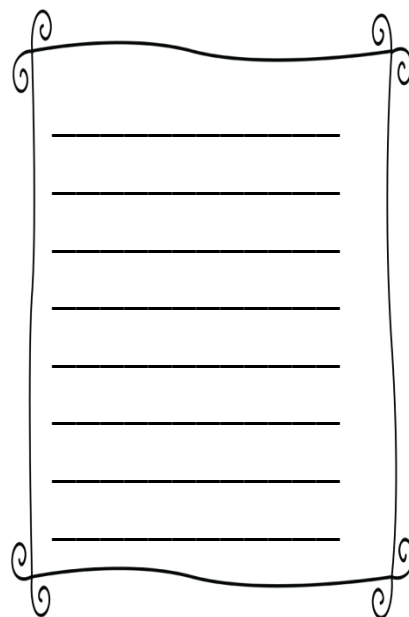
A decorative rectangular frame with ornate, swirling corners. Inside the frame are ten horizontal lines for writing.



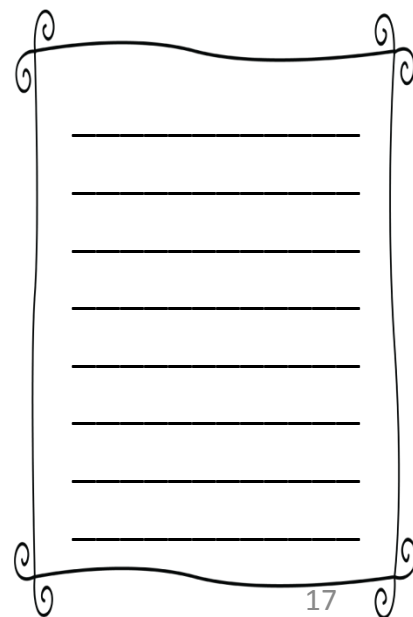
A decorative rectangular frame with ornate, swirling corners. Inside the frame are ten horizontal lines for writing.



A decorative rectangular frame with ornate, swirling corners. Inside the frame are ten horizontal lines for writing.



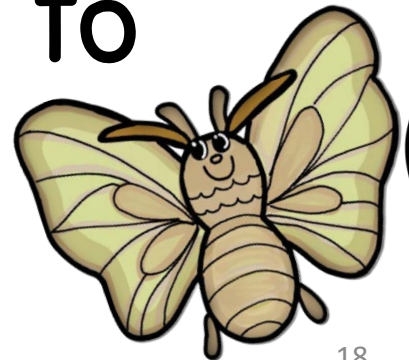
A decorative rectangular frame with ornate, swirling corners. Inside the frame are ten horizontal lines for writing.



A decorative rectangular frame with ornate, swirling corners. Inside the frame are ten horizontal lines for writing.

Directions for Diary of A Silkworm

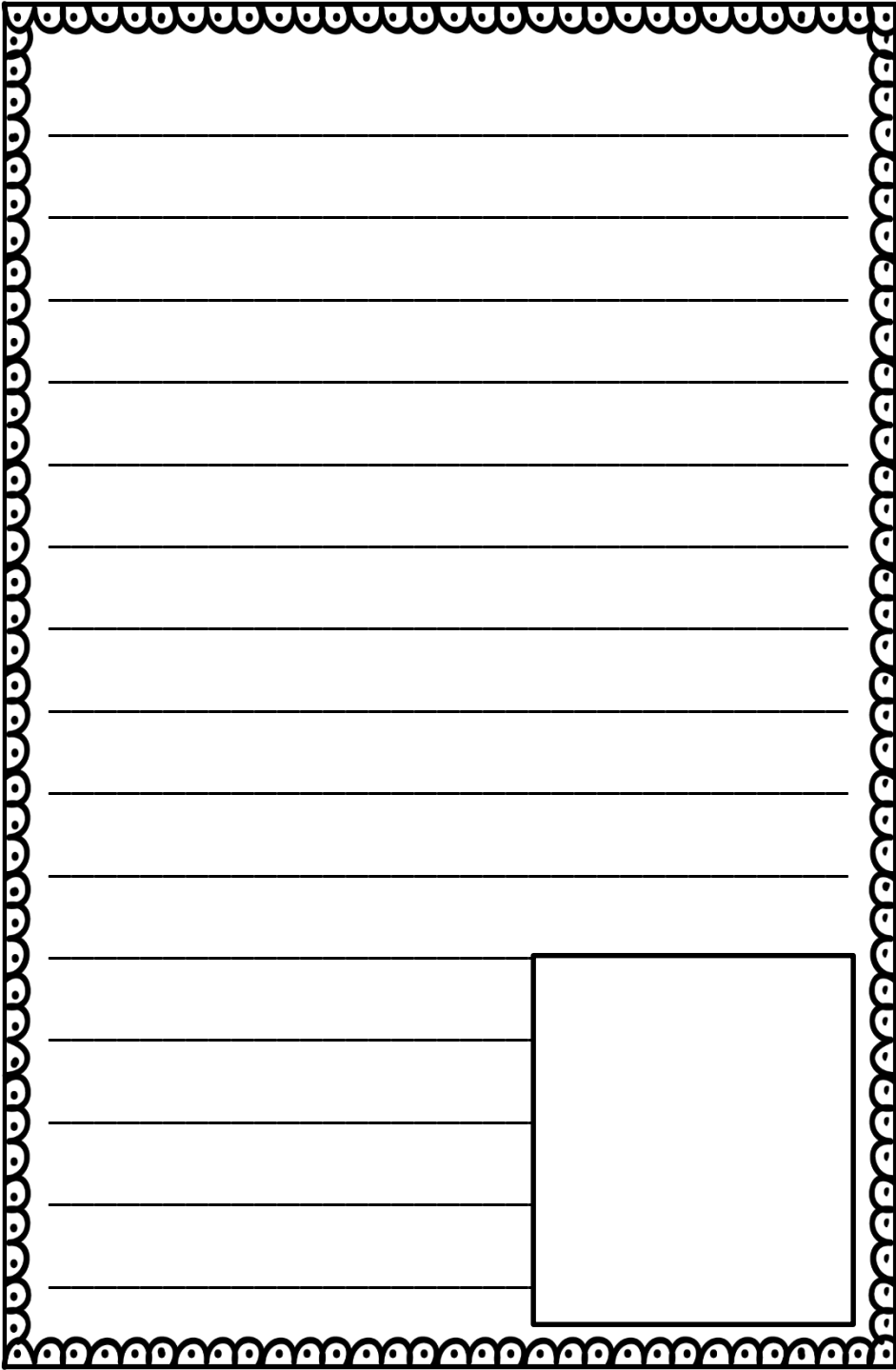
1. pretend you are a silkworm.
2. Create a diary in the voice of a silkworm.
3. write at least 3 diary entries describing the stages you are going through from egg to silkworm moth.



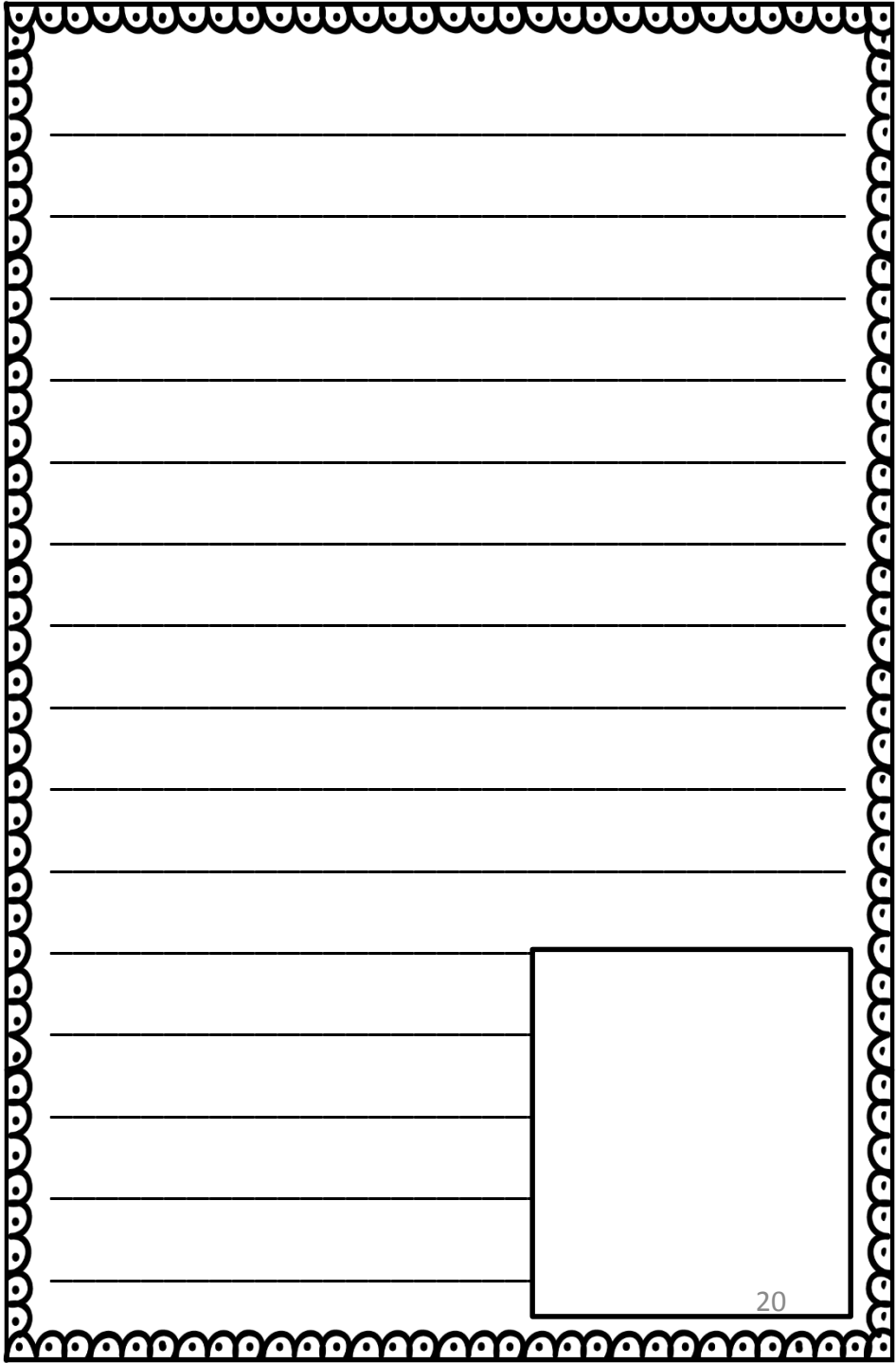
Diary of A Silkworm



By: _____



A series of horizontal lines for writing, with a large empty rectangular box at the bottom right.



A series of horizontal lines for writing, with a large empty rectangular box at the bottom right.

websites Used in web Quest

<http://www.enchantedlearning.com/paint/subjects/butterfly/activities/printouts/silkworm.shtml>

<http://animals.pawnation.com/kids-silkworms-9616.html>

<http://www.suekayton.com/Silkworms/whole.htm>

<http://animals.mom.me/kids-silkworms-9616.html>

<http://www.abc.net.au/creaturefeatures/facts/silkworms.htm>

Credits:

Font: [Jennifer Jones, Hello Literacy](#)

Frames: [Lovin' Lit](#)

Background Cover: [Sonya DeHart Designs](#)

Silkworm clipart: [Teacher Laura](#)

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[store!](#)