## Parts Of A Honey Bee Anchor Chart

Plus Bee Book Bibliography \& Educational Bee Video Links


This FREEBIE comes from my JUMBO "Big Bee" packet: "Honey Bees!" For your convenience I've included a PREVIEW.
Click this cover for a link to the entire packet.

stinger
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My FAVORITE Books About BEES

Click on the cover to see details.



## Short Educational YouTube Videos



Really cute honey bee life cycle rap song.
https://www.youtube.com/watch?v=XZQmE0B7gFQ 3:42

https://www.youtube.com/watch?v=bFDGPgXtK-U
7 minutes
An excellent documentary of the "Waggle Dance" of the honey bee.

"Busy Bees" A simple \& interesting look at bees. 3:59 https://www.youtube.com/watch?v=ta154f5Rp5Y

"Honey Bees" by Natural History A nice over view. Wonderful, simple to understand information. 4:11 https://www.youtube.com/watch?v=x7cX2cjFunw


National Geographic.
Amazing time lapse of the bee's life cycle.
Shows close ups inside the hive"s cells. 1:08
https://www.youtube.com/watch?v=f6mJ7e5YmnE


Science Online
Very interesting clip about being a beekeeper. 15:30 https://www.youtube.com/watch?v=IOYrVUSPVhY


Science Online "A Honey Bee's Life Cycle" 9:56 Very interesting and easy to understand. Shows a beekeeper explaining the complete life cycle process.
https://www.youtube.com/watch?v=sSk_ev1eZec


Science Online "Extracting Honey" 7:41 Very interesting and easy to understand. https://www.youtube.com/watch?v=AfC1JBGx2TY


The bee's stripes show an $A B A B$ color pattern.

The black stripes were made by ripping \& tearing strips of black paper into little squares, then gluing them to the bee's striped body pattern.

This is a super-fun way for students to improve their fine motor skills, at the same time strengthening their finger \& hand muscles.

Build vocabulary \& reinforce the 4 stages of the bee's life cycle, by having students write the phases in sequential order on the yellow stripes.

Completed projects make a sweet bulletin board.

I've included a "Bee-utiful Work!" poster for the center of your display.


Besides the "rip \& tear" option, the bee's body also comes with several hexagon versions.
Since this is a some what toughie shape for my students to learn, I decided to help reinforce it by designing this pattern.
It works perfectly as a segue for science, as bees build their honeycombs in the shape of a hexagon.
This is called a cell, where the queen bee lays a single egg.
Younger students can simply color the "honeycomb body" any way they want. I encourage my students to use at least 6 colors, as that's how many sides the hexagon has, and it makes their completed bee so much prettier. You can also have students color each line of hexagons in an ABAB color pattern, using black and yellow crayons. To reinforce the life cycle of the honey bee, I've also included a labeled pattern with graphics. The blank pattern can also be filled in with numbers or letters. I've included already filled-in patterns, which provide a quick, easy \& fun way to whole group assess. Call out a letter or number. Students find it and color that hexagon in, then raise their hand. You can see at a glance who is having difficulty. Continue to have students call out letters or numbers 'til they are all colored in. Give them a few more minutes to fill in the few empty cells. Playing this game makes coloring less tedious \& a lot more fun too.



So that you can diversify yours lessons, I've included patterns where students color, trace \& write the 4 stages, as well as a template where students fill in the blanks and label their own puzzle frames. There's also a blank one, if you want your students to draw their own graphics.
So that you can quickly \& easily make an example to share, I've included a full color pattern as well.
I print the frame template on 4 different colors of construction paper, and the center puzzle piece on white, then laminate and cut out. Your frames can all be one color, or mix them up to add pizzazz, and showcase each stage, by using a piece from each frame to make a multi-colored puzzle frame. I use mine as an independent science center; later, my students are excited to make their own as a whole group.


A honey bee's egg is very small.
They average 1 to 1.5 mm long. (0.039-0.059 of an inch)

This is a difficult size for an adult to picture, let alone a

Because a single grain of white rice is about the same size and also looks a bit like a bee's egg, I designed this quick, easy \& fun little craftivity to help explain and show what a bee's egg sort of looks like.

There are 2 worksheets on a pattern page, which will save ink, paper \& make things just-the-right-size for

There are 2 template options.
I set this station up as a center activity, and call 3 students up at a time to my long table.
They bring their semi-completed worksheet with them.

Using an Elmer's glue bottle, students outline the letter then sprinkle instant "Minute Rice" on top of the glue, carefully pressing the pieces down with the palm of their hand, then shaking the excess off in a box. A dot of glue inside the honeycomb cell along with a single piece of rice, completes the project.

Set aside to dry.


Post makes Honeycomb cereal.
This is what I used for the guess-timation worksheets.
If you can't find it at your grocers you can substitute a similar-size cereal like Chex. It won't be in the hexagon, honeycomb shape, but you'll still be able to do the activities.
I have my students wash their hands beforehand, then give them all a cup full of cereal to use as manipulatives. Afterwards, they munch a crunchy little snack, while we review our results and discuss how they tried to figure out "how many". I've also included a graphing extension. I used the cereal box to make the math symbol graphics. I thought it was rather amazing that all 3 worksheets came out with the same answer of 14 .









I really enjoyed doing research on the different castes of honey bees. After countless hours of research. I condensed my findings and made 15 detailed "info-anchor chart posters".


As you peruse them, highlight the information that you want to share with your students, then check their comprehension by having them fill in the worksheet, or by taking the "worker-drone or queen bee" quiz, which can be given orally to younger students.

You simply read each question and

## "what'11 It Bee?"

 rd rather be a worker bee than a drone $\qquad$ bee because...workers are really the ones in charge. They even control the queenl Although they do a ton of work, a lot of their jobs seem really interesting and fun. I wouldn't want to be a drone because they don't live that long and are later starved and killed by the workers.

worker
students hold up the appropriate hive showing a worker, queen or drone.

To make a Popsicle stick hive puppet, run the pattern off.

Children trim and glue the worker and queen hives back-to-back on one end of the stick, and the drone hive
 on the bottom.

Afterwards, students can pick a partner and take turns sharing a fact that they remember, and seeing if their partner can identify which honey bee that is by using their "hive puppet". There are 3 patterns to choose from.

Comprehension can also be checked via the "What'll It Bee?" writing prompt, as well as the various Venn diagrams that can be done as a whole group activity to reinforce the information yet another way.


As a time-saver for you, I've made a list of true or false questions which you can use to assess comprehension. These are based on the interesting facts and background information that I've included in the packet.

For a quick, easy \& super-fun way to quiz your kiddos, at the same time reinforcing the facts, students can flip a true or false Popsicle stick puppet pal.

Simply read a statement. Students decide if it's true or false, then face that "honeycomb" towards the teacher. You can see at a glance who's having difficulty.


After sharing the interesting information about the 3 types of bees in a colony and the various jobs they do, check comprehension with this craft stick hive paddle.
Read one of the 3 descriptive statements. Students decide which bee you are describing, then hold up that hive, so that it's facing the teacher. You can see at a glance who is having difficulty. Share the correct answer, then do another statement. Hives are glued back-to-back, and on both ends.

