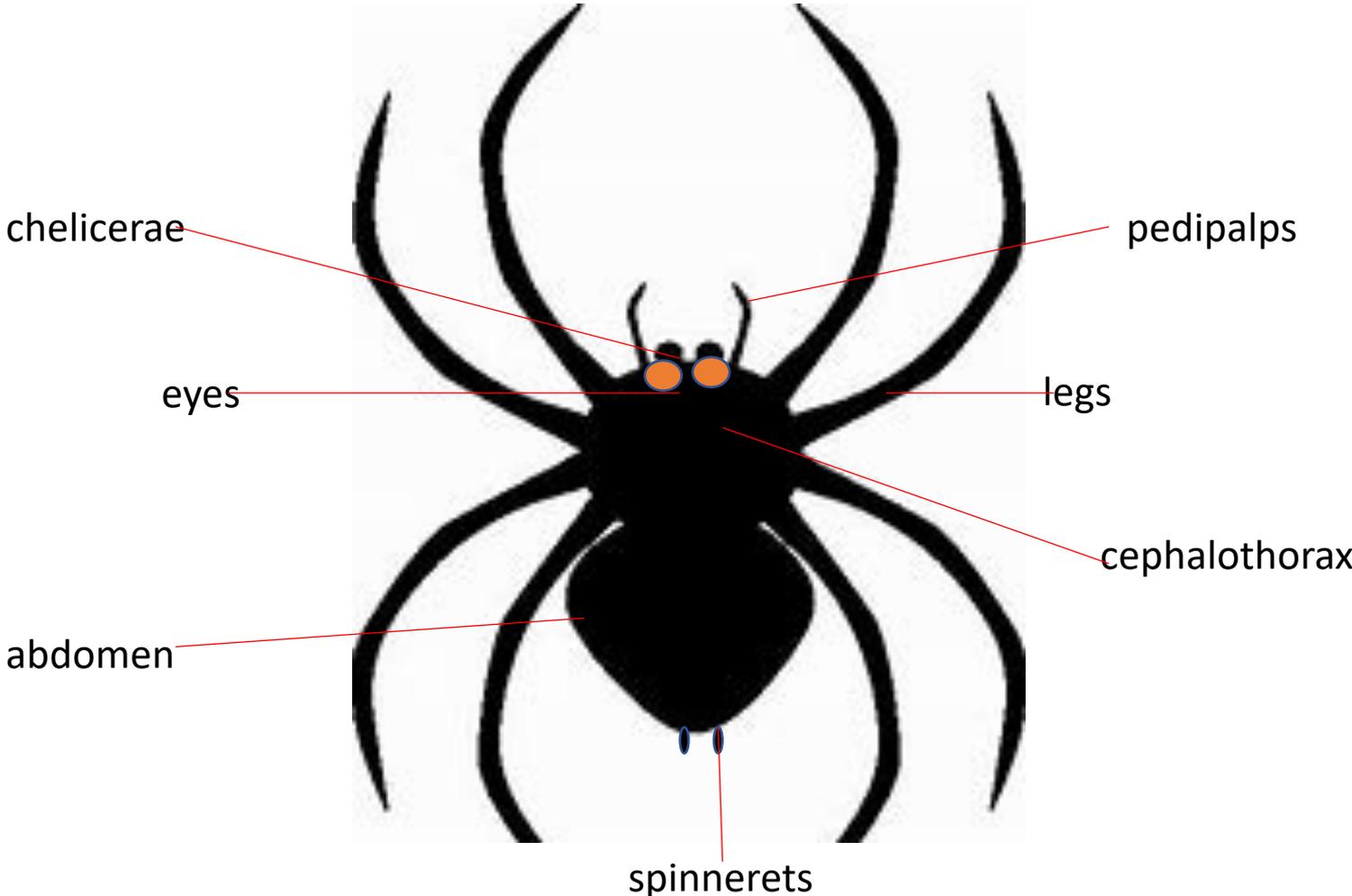


How are arachnids
different from insects?

Clever Spiders

Spiders are arachnids. They have two body parts; cephalothorax (a combined head and thorax) and abdomen. How would you like it to have 8 legs attached to your head? The spider's legs come out of its head! Spiders have 8 legs and spinnerets to make silk for webs.





Different spiders use
different ways of
hunting—webs, trapping,
jumping, even underwater!

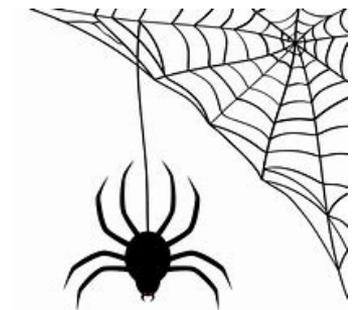
More about spiders!

Kinds of spiders

- Spiders use spitting, hunting, jumping, fishing and trapping, as well as webs to trap prey--spiders are carnivores.
- Some kinds of spiders are money spiders, orb-web spiders, trapdoor spiders, jumping spiders, crab spiders and huntsman spiders.

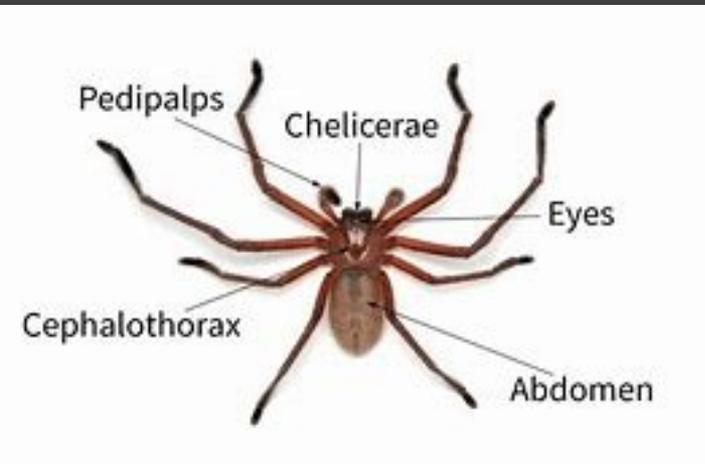
Webs

- Webs can be orbs or circles, hammocks, sheets, zippers, scaffolds, or traps.
- Spiders can make trapdoors, or spit, to glue their prey, or make nets with bubbles, to catch prey in the water.





Spider Lore



- Insects have 3 body parts, 6 legs, antennae, and often wings.
- Spiders are arachnids.
- Spiders generally have 8 eyes, 2 large and 6 small.
- Their 8 legs have 7 joints.
- They have scopulate (brush-like tufts of hairs) pads on the bottom of their feet and generally 2 claws.
- The hard shell made of chitin (hard substance) over the cephalothorax is the carapace (protective covering over the abdomen).
- They have chelicerae and pedipalps to hold, tear, and push food into their mouths.
- When they molt the abdomen splits.
- The spinnerets make silk. The two body parts are cephalothorax and abdomen. Lyriform organs (slits) pick up sensory signals.



Spiders have hard exoskeletons, so they have to molt to grow.



You can sing spider songs!

The Spider in the Web

Sung to: "Farmer in the Dell"

The spider weaves a web, (hands together fingers curled)

The spider weaves a web.(hands together fingers curled)

Spinning spinning, watching waiting, (hand spinning)

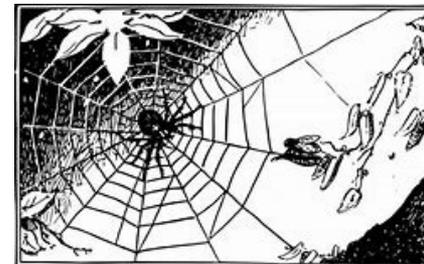
The spider weaves a web. (hands together fingers curled)

The spider's hunting bugs. (hand grasping)

The spider's hunting bugs. (hand grasping)

Spinning spinning, watching waiting, (hand spinning)

The spider weaves a web. (hands together fingers curled)



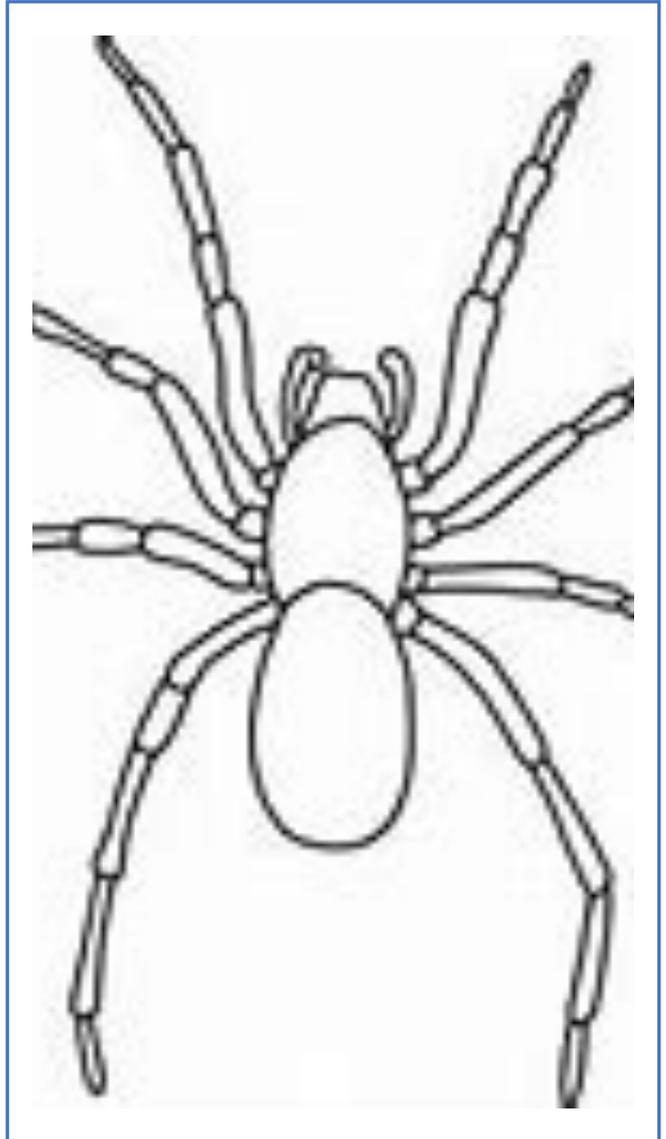
Spider Body to Mary Had a Little Lamb

Spider bodies have 2 parts, have 2 parts, have 2 parts. (2 fists)

Spider bodies have 2 parts the head and abdomen. (touching head and tummy)

Spider bodies have 8 legs, have 8 legs, have 8 legs. (4 fingers each hand)

Spider bodies have 8 legs and spinnerets for silk. (twirling fingers)



And their webs....

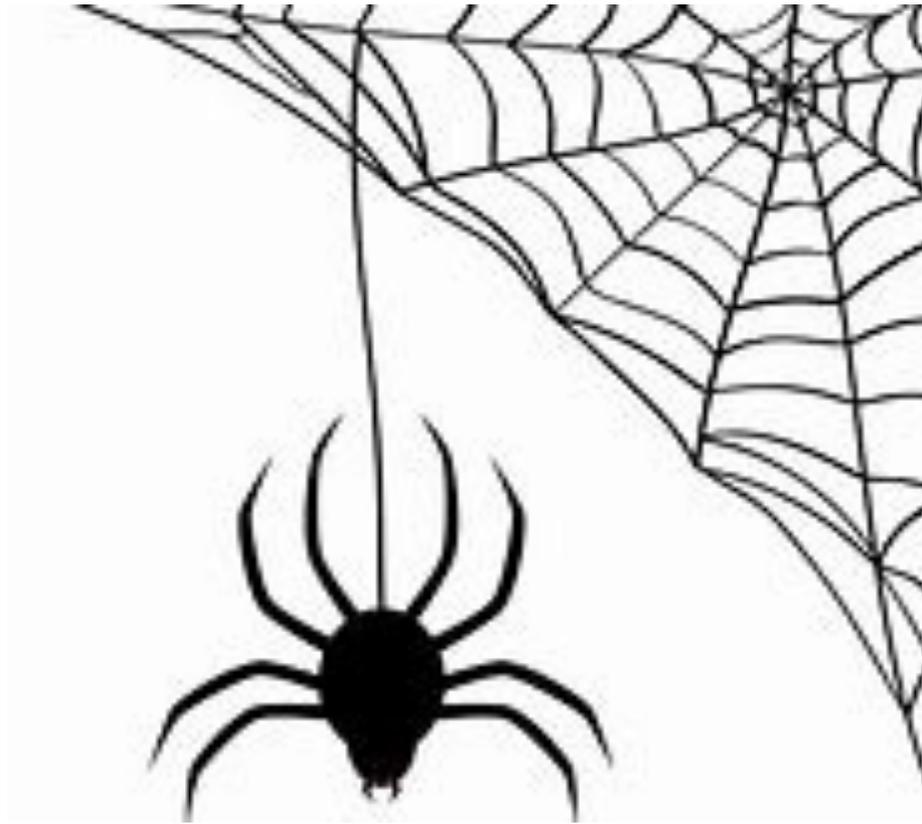
Clever Spiders



A spider's legs come from its head.



And spinnerets will make the thread



To build a web from limb to limb



And capture what bug ventures in!





Can you be a
spider
hunter?

Where can you find a spider web? In a tree? In the grass? In a corner of the room? On a window shade? Is there a spider in the web or wrapped up prey?

Let's Go Collecting Bag

Get a bag or envelope and



Glue on the net and decorate it for the Let's Go Collecting Game!

Your family can hide all the spiders around the house, and you can play the Let's go Collecting Game and try to collect all the spiders in your bag!

Spiders to hide around the house for the Let's Go Collecting Game



You can weave a web in a tree!

Get some string or yarn and loop it around twigs in the tree to make a web.



Make your own spider webs!

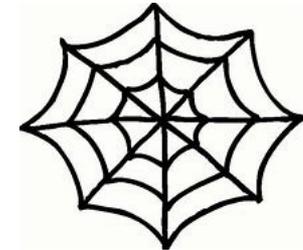
Giant spider web

Use a skein of yarn or roll of ribbon or spool of thread and weave web threads between chairs.

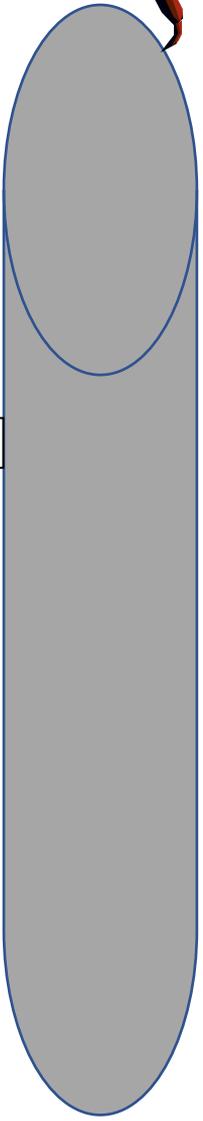
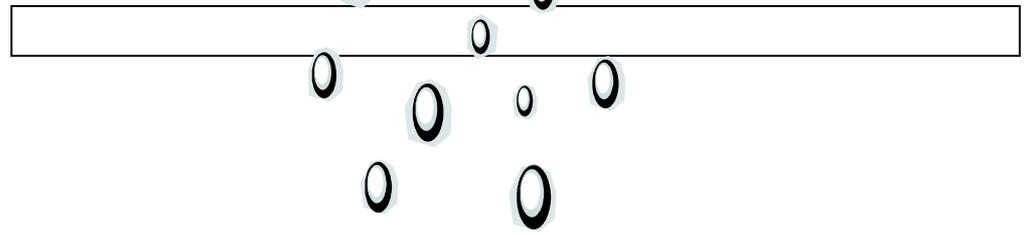
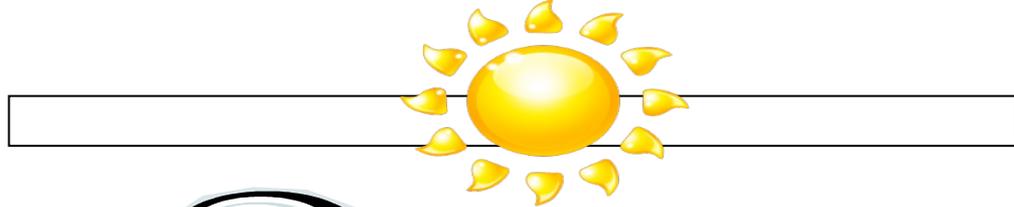
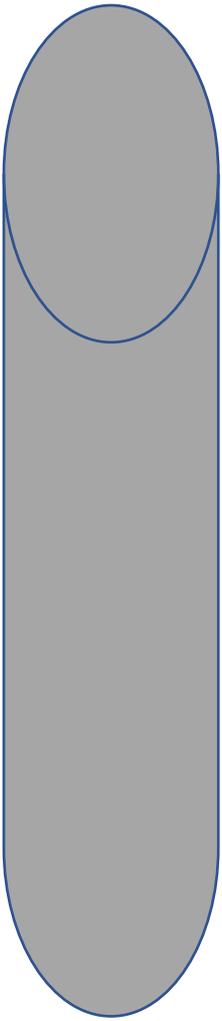


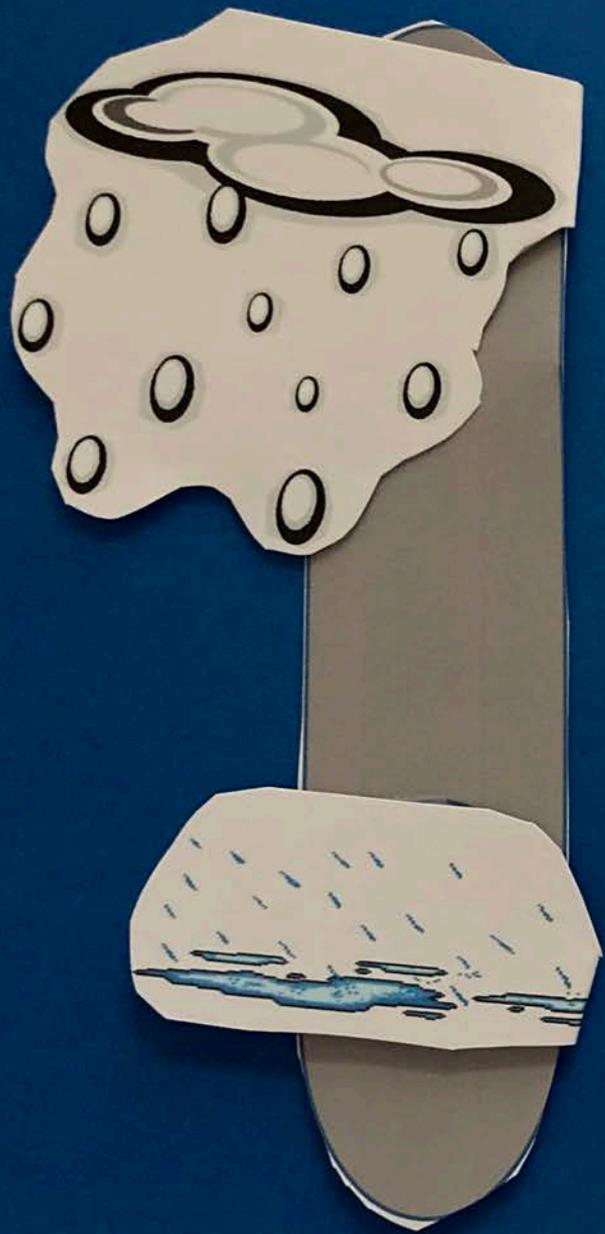
Spider web snack

You can make your web from a squeeze bottle of dressing or ice cream topping and place raisins or nuts or seeds to be the flies caught in the web.



Itsy Bitsy Spider--popsicle stick with sun and cloud glued on front and back on top and puddle on the bottom and spider ring to slide up and down. You can also make sliding cloud and sun to move up and down. Connect the tabs to make a ring for sliding..





Make an edible spider!

- Take a sandwich cookie and separate the halves. 
- Place the cookies together slightly overlapping so they stick together.



- Add 2 raisins for eyes.



- Add 8 pretzel sticks for legs.



- Surprise! A spider!



I made a spider from candy, pretzels and chocolate chips, and made a spider 2-part body from a cookies.

I could have used cucumber or carrot sliced and thin slices of green peppers for legs, pedipalps, and chelicerae.





What are other things you can use to make edible spiders?



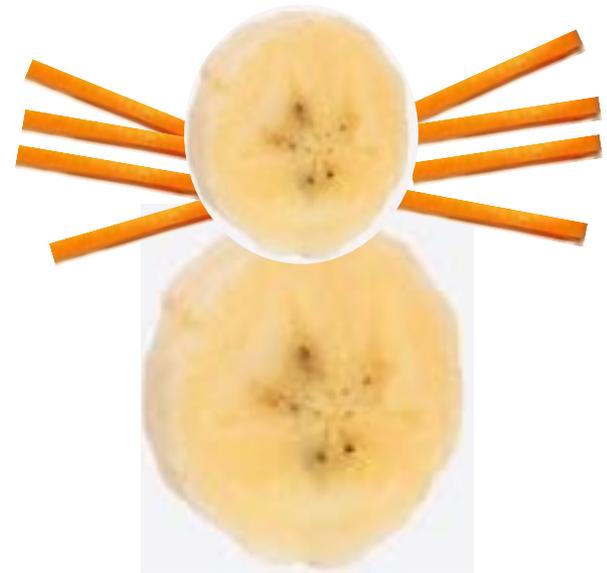
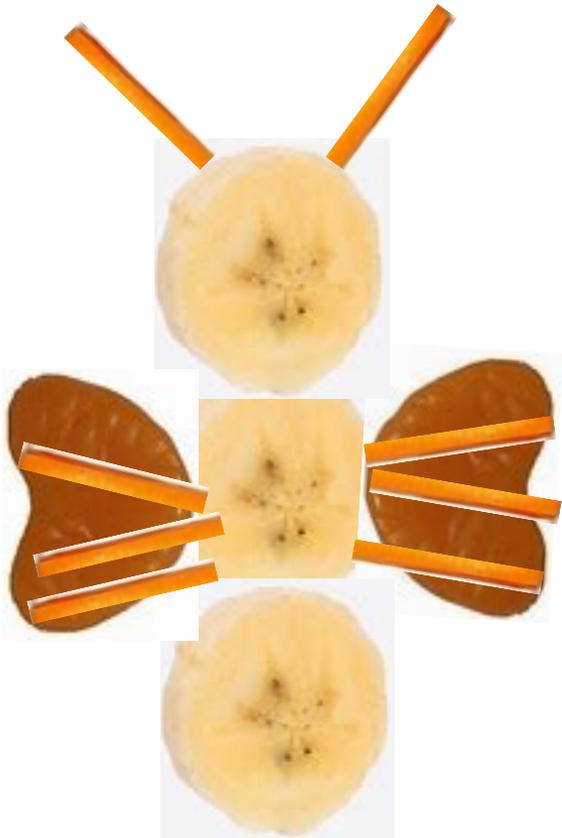
What can you use for your web and insects?

Let's learn the difference between insects and spiders.

- For insects--You can use slices of bananas to be the three insect body parts and thin slices of carrots to be the 6 legs and 2 antennae, with orange or tangerine slice wings.
- For spiders you can use two banana slices for the two body parts and eight thin sliced carrots for the 8 legs.
- Now compare the two arthropods. Which have antennae? How many legs does each have? Which has wings? Which one has 2 body parts?



Compare and contrast an insect and a spider.



You can use candies and chips to show the difference between your spider and your ant!

Count the legs—count the eyes—spinnerets—pedipalps? Cephalothorax and abdomen or head, thorax, abdomen? Which one has antennae? Legs from the head or the thorax?





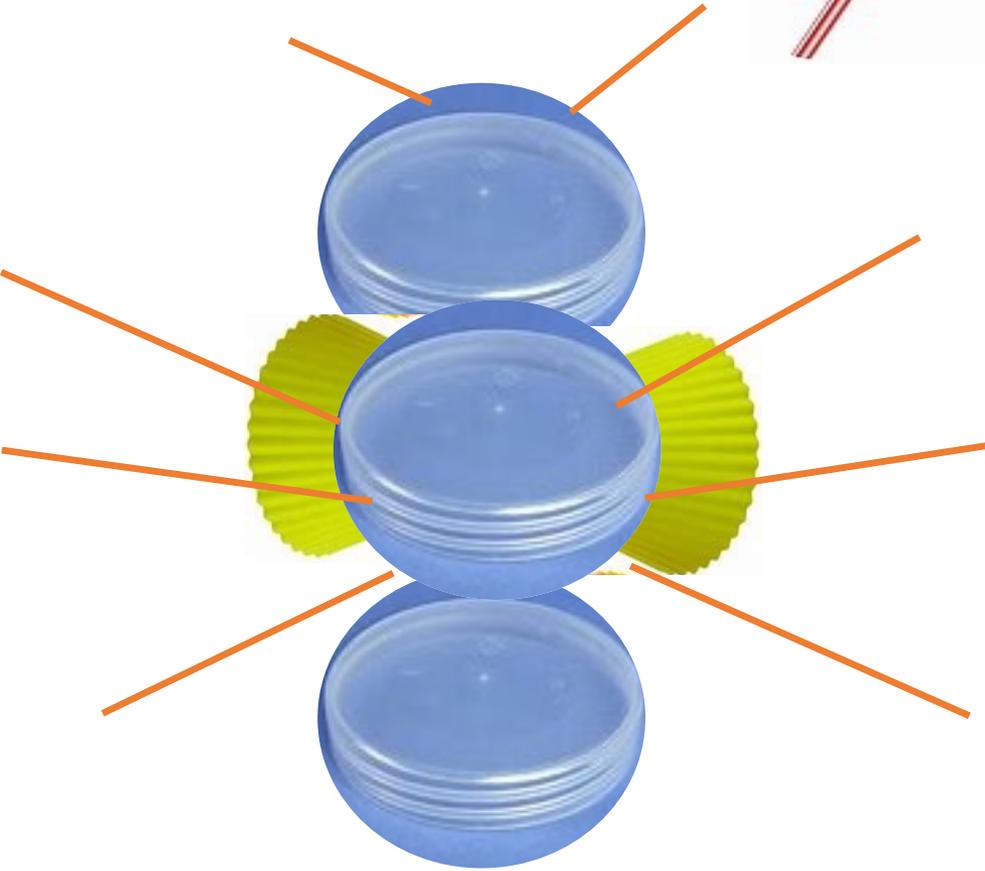
You can use bottle caps or muffin cups, straws or toothpicks to make your spider and your ant.

Now compare and contrast with a craft.

- For insects, glue 3 bottle caps top down on a paper. Cut two straws into 8 pieces—6 for legs and 2 for antennae and glue down. If you have muffin cups or coffee filters, use those for wings.
- For spiders use two container covers or small paper plates for the two body parts, and 4 straws cut in half for the 8 legs.
- Once again contrast the two—how many legs, antennae, wings?



Now we know the difference between an insect and a spider.

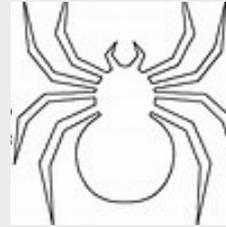


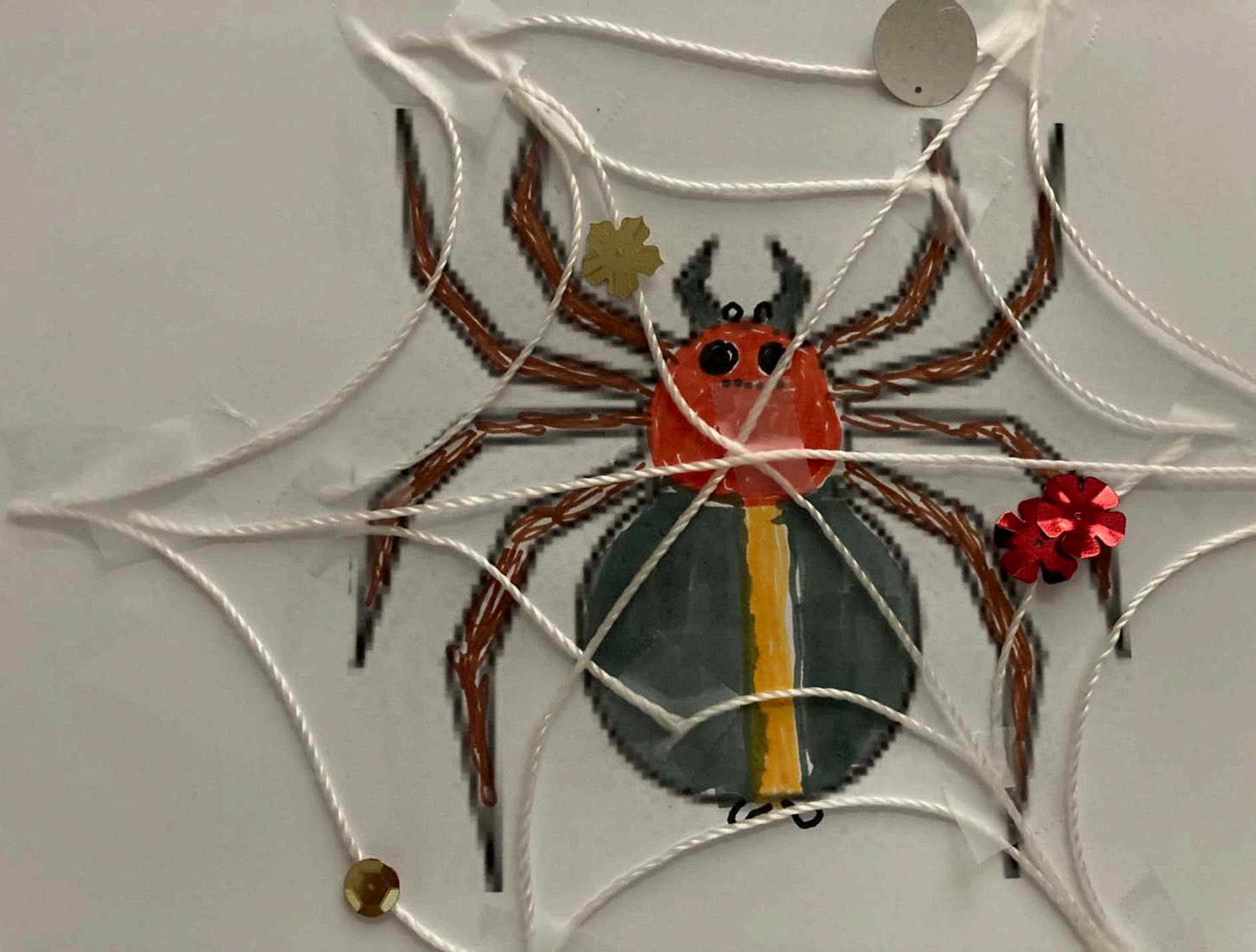


What are some other ways to create a spider? How is the yarn like a spinneret?

Decorate your spider and make a web out of yarn or string or thread!

- First decorate your spider.
- Now use thread, string, yarn or ribbon to make a web.
- Beads or sequins can be the insects trapped in the web.





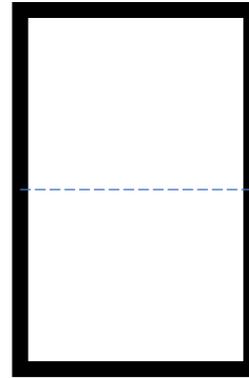
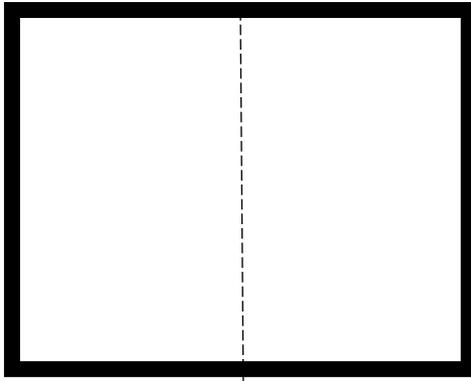
You can imagine your spider!

And add a string web and bead bugs!



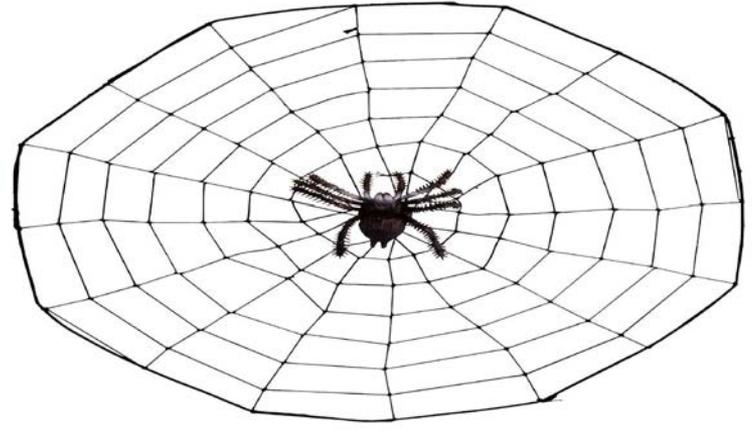
You can make a mini-book!

- Fold the paper in half
- Then in half again.

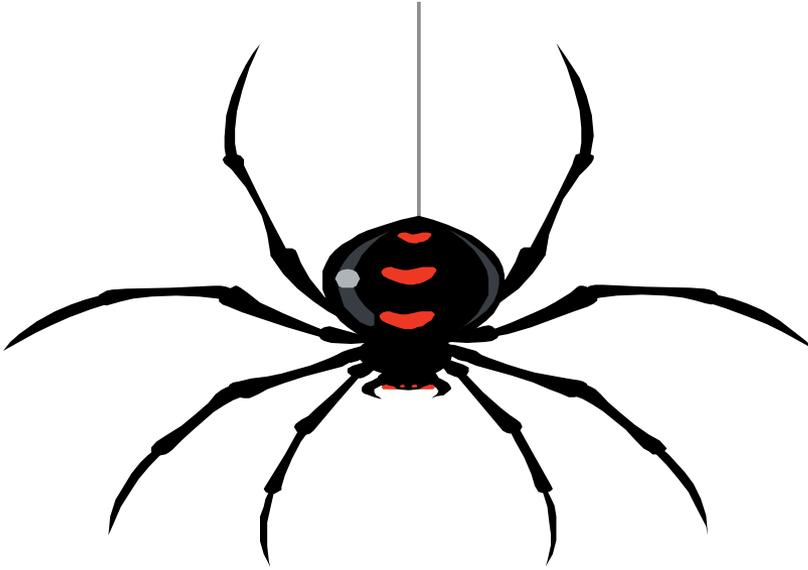




Catch insects



Weave webs



Spiders

Diary of a Spider teaches us how spiders live, and Anansi the Spider is an example of a folktale.

<https://www.youtube.com/watch?v=et9oHM62UF4>

<https://www.youtube.com/watch?v=NMBnKh5LS7E>

