Water Spray for Running
Biological Champion = Elephant
Glasses to see in the Dark
Biological Champion = Cat
Attachment to Catch Food
Biological Champion = Venus Fly Trap
Jumping Device
Biological Champion = Lynx
Grabbing Device
Biological Champion = Giraffe
Biomimicry Challenge

What is your problem or challenge? 
far things are blurry

What is your biological champion? 
Birds of prey

What structures and functions does your champion have? 
farther away cornea

What structures and functions does your biomimicry design have? 
a far out lens to see farther

Draw a picture of your biomimicry design.
Biomimicry Challenge

What is your problem or challenge?
I get hot when I run.

What is your biological champion?
Elephant

What structures and functions does your champion have?
trunk that sprays water

What structures and functions does your biomimicry design have?
tube that sprays water

Draw a picture of your biomimicry design.
Biomimicry Challenge

What is your problem or challenge? I can't reach the cereal on the top of the shelf.

What is your biological champion? A monkey.

What structures and functions does your champion have? It has strong arms, legs, and tail to climb the shelf.

What structures and functions does your biomimicry design have? A strong grip to pull yourself up.

Draw a picture of your biomimicry design.
Biomimicry Challenge

What is your problem or challenge? cars slipping on snowy day.

What is your biological champion? Polar Bear

What structures and functions does your champion have? [claws, to hold on to the ice; paws, to go; paws, to grip or a good grip on the ice]

What structures and functions does your biomimicry design have? [The tires should have spikes; small spikes on the tires, like claws on polar bears, and spikes that you can put on running/shoe]

Draw a picture of your biomimicry design. [Hand-drawn image of a tire with spikes to grip into the ice, labeled 'Extra tread to grip onto the snow']
Biomimicry Challenge

What is your problem or challenge?
I can not reach my tall cabinet at my house.

What is your biological champion?
A giraffe.

What structures and functions does your champion have?
A long neck.

What structures and functions does your biomimicry design have?
A long gripping stick.

Draw a picture of your biomimicry design.
Biomimicry Challenge

What is your problem or challenge?
I want to jump better.

What is your biological champion?
It is a lynx.

What structures and functions does your champion have?
Strong muscles for catching prey

What structures and functions does your biomimicry design have?
Springy legs for jumping far

Draw a picture of your biomimicry design.
Biomimicry Challenge

What is your problem or challenge?
My problem is that I'm not very good at climbing trees because my arms/legs aren't long enough.

What is your biological champion?
My biological champion is a monkey because they're really good at climbing due to long limbs and tails.

What structures and functions does your champion have?
- Structure: long tail
- Function: pulling themselves up to branches

What structures and functions does your biomimicry design have?
- Strong material that doesn't break
- Long enough to reach high branches

Draw a picture of your biomimicry design.

a strong, braided rope to act like a strong, long tail.

Materials needed:
- Yarn, pipe cleaners
Biomimicry Challenge

What is your problem or challenge? I can't catch food when I throw it up in the air and I can't catch it.

What is your biological champion? Venus flytrap

What structures and functions does your champion have? A wide mouth to catch prey and hairs to feel when it completes.

What structures and functions does your biomimicry design have? A wide mouth for catching things.

Draw a picture of your biomimicry design.
Biomimicry Challenge

What is your problem or challenge?
Not being able to see in the dark

What is your biological champion?
Cat

What structures and functions does your champion have?
There pupil is a oval shape and that makes the light shine on an angle.

What structures and functions does your biomimicry design have?
My glasses will have an angle so the light will go in the eye like a Cat.

Draw a picture of your biomimicry design.