

The cover of the HexBUG Field Guide is dark grey with a textured surface. It features a large, light grey hexagonal logo in the center-left containing the word "HEX" in bold, dark letters. To the right of this logo, the word "BUG" is written in large, light grey, sans-serif capital letters. Below "BUG", the words "Field Guide" are written in a smaller, white, serif font. The cover is decorated with several hexagonal patterns: a large, light grey outline of a hexagonal grid on the left side, and two clusters of smaller, light grey hexagonal outlines in the top-right and bottom-right corners, each forming a larger hexagonal shape. The corners of the cover are slightly worn, revealing a lighter material underneath.

HEXBUG[®]

Field Guide

nano

MICRO ROBOTIC
CREATURES

FIELD GUIDE

NEWTON Series

- | | |
|----------------------|--|
| Identification steps | Starter mutation
Spiral Starter mutation |
| Gravity | Zip-line mutation |
| Orbit | Bridge Battle mutations
Raceway mutations |
| Motion | Elevation mutations |
| Calculus | Collector's Case
The Hive |
| Refraction | Construct Habitat mutations
Construct Elevation mutations |

Nano Collectors: note that we have found the following sites invaluable during our research and recommend with a parent's approval that you visit them...

www.hexbug.com/nano and www.handandstars.com

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FIELD GUIDE

GALILEO Series

- | | |
|----------------------|---------------------|
| Identification steps | Habitat mutations |
| GALILEO series | Elevation mutations |
| Starter mutation | |

SPECIAL Editions / Collectible Series

- Easter Edition
- Halloween mutations
- Holiday mutations

MECHANICAL Micro Robotic

- Larva / Spider
- Inchworm / Ant
- Original / Crab

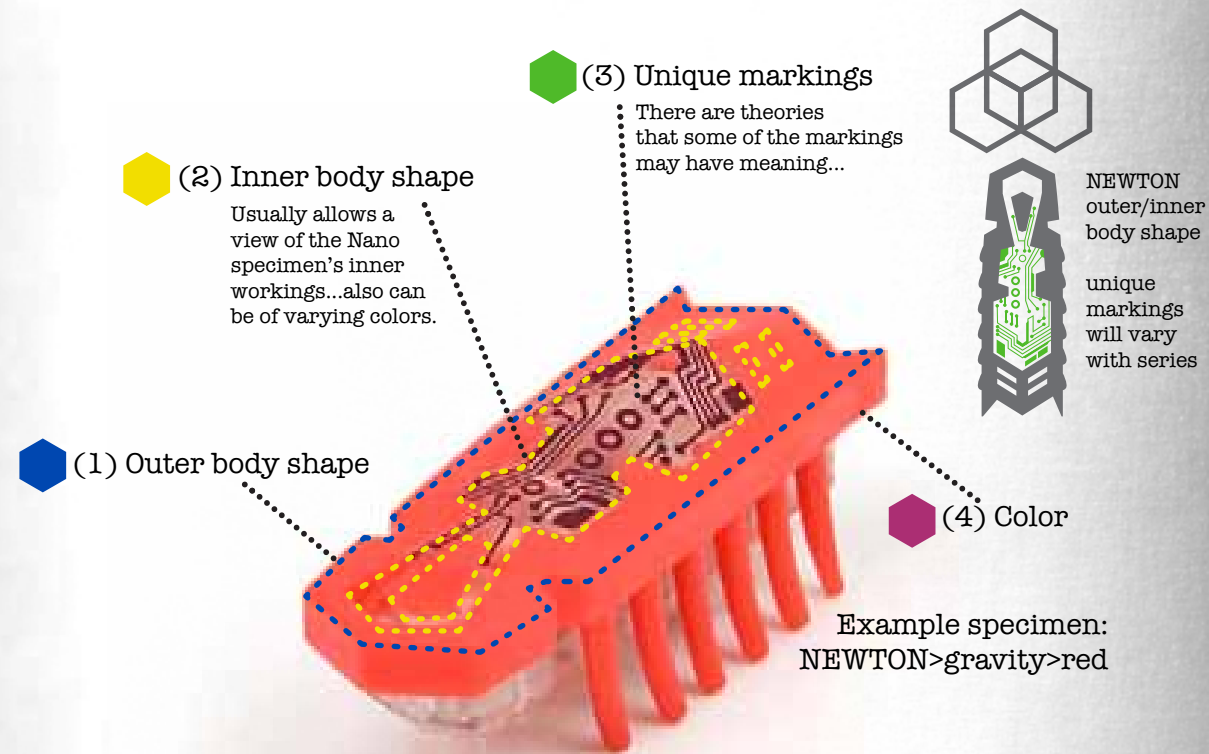
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NEWTON Identification steps

Collector: there are (4) steps one should use to identify and categorize a Newton Nano specimen:



NEWTON Nano swarm locations

Data is still being gathered.



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www.hexbug.com/nano and www.handandstars.com



NEWTON series / gravity

Collector: there are (5) known varieties within this series.



NEWTON outer/inner body shape

unique markings



NEWTON series Gravity / green
Common sighting
2,000 Lumens



NEWTON series Gravity / blue
Less common sighting
2,500 Lumens



NEWTON series Gravity / red
Uncommon sighting
3,500 Lumens



NEWTON series Gravity / orange
Rare sighting
5,000 Lumens



NEWTON series Gravity / purple
Very rare sighting
10,000 Lumens



Habitata / mutations

Collector: there are (2) known mutations within this series.



NEWTON mutation

outer/inner body shape

unique markings

NEWTON mutation black / red
Extremely rare sighting
15,000 Lumens



NEWTON mutation blue / red
Extremely rare sighting
12,500 Lumens



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NEWTON series / orbit

Collector: there are (5) known varieties within this series.



NEWTON
outer/inner
body shape



unique
markings



NEWTON series
Orbit / blue
Common sighting
2,000 Lumens



NEWTON series
Orbit / green
Less common sighting
2,500 Lumens



NEWTON series
Orbit / red
Very rare sighting
10,000 Lumens

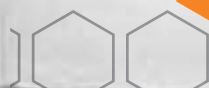


NEWTON series
Orbit / black
Uncommon sighting
3,500 Lumens



NEWTON series
Orbit / purple
Rare sighting
5,000 Lumens

Hollow cylinders have been found
in various areas of Texas.
We suspect the nanos
are using these tubes for
transporting themselves.



NEWTON series / motion

Collector: there are (5) known varieties within this series.



NEWTON
outer/inner
body shape



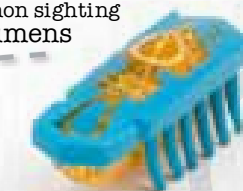
unique
markings



NEWTON series
Motion / black
Common sighting
2,000 Lumens



NEWTON series
Motion / teal
Less common sighting
2,500 Lumens



NEWTON series
Motion / grey
Uncommon sighting
3,500 Lumens



NEWTON series
Motion / pink
Rare sighting
5,000 Lumens



NEWTON series
Motion / yellow
Very Rare Sighting
10,000 Lumens





NEWTON series / calculus

Collector: there are (5) known varieties within this series.

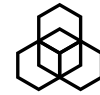


NEWTON
outer/inner
body shape

unique
markings

Calculus

The notation was introduced by the German mathematician Gottfried Wilhelm von Leibniz towards the end of the 17th century.



NEWTON series
Calculus / Black
Common sighting
2,000 Lumens



NEWTON series
Calculus / Blue
Less common sighting
2,500 Lumens



NEWTON series
Calculus / Green
Uncommon sighting
3,500 Lumens



NEWTON series
Calculus / Gray
Rare sighting
5,000 Lumens



NEWTON series
Calculus / Brown
Very rare sighting
10,000 Lumens



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NEWTON series / refraction

Collector: there are (5) known varieties within this series.



NEWTON
outer/inner
body shape

unique
markings



NEWTON series
Refraction / Gray
Common sighting
2,000 Lumens



NEWTON series
Refraction / Black
Less common sighting
2,500 Lumens



NEWTON series
Refraction / Pink
Rare sighting
5,000 Lumens



NEWTON series
Refraction / Blue
Uncommon sighting
3,500 Lumens



NEWTON series
Refraction / Green
Very rare sighting
10,000 Lumens



Refraction is the change in direction of a wave due to a change in its speed.

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Starter / mutation

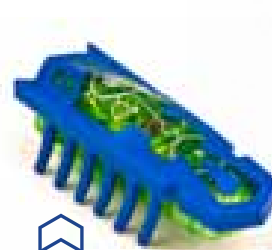
Collector: there is (1) known mutation in this set



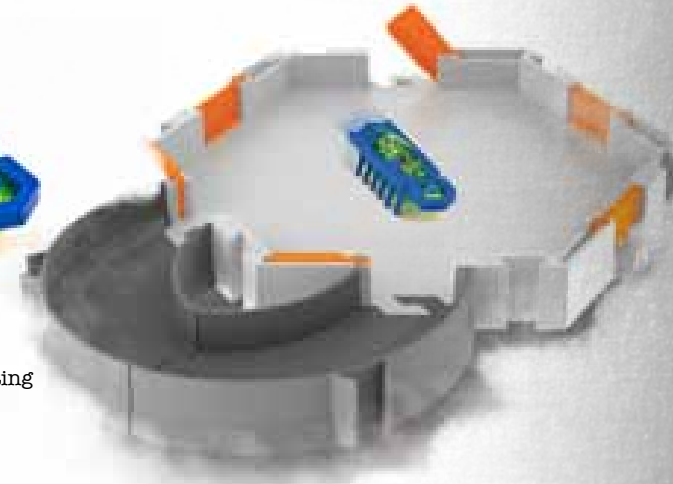
NEWTON
mutation

outer/inner
body shape

unique
markings



NEWTON mutation
Starter / blue
Extremely Rare Sighting
12,500 Lumens



Spiral Starter / mutation

Collector: there is (1) known mutation in this set



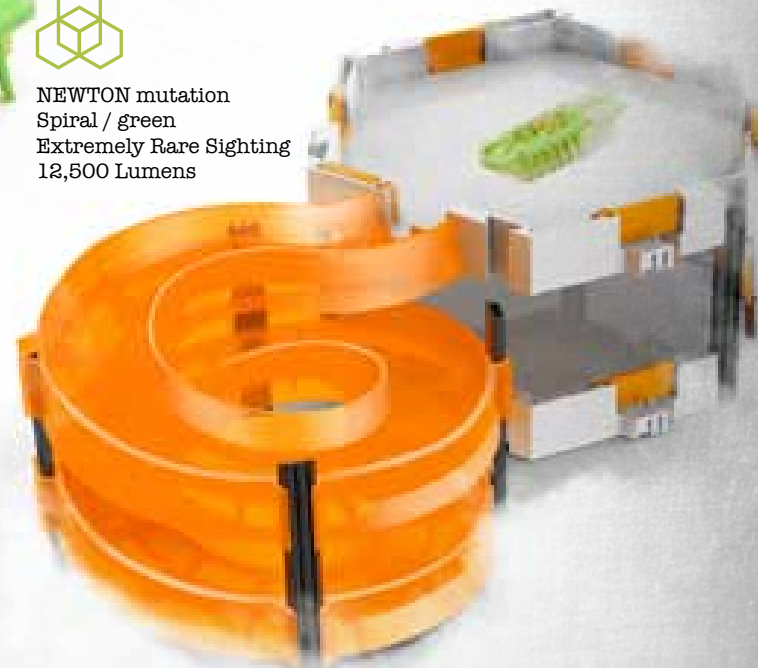
NEWTON
mutation

outer/inner
body shape

unique
markings



NEWTON mutation
Spiral / green
Extremely Rare Sighting
12,500 Lumens



www.hexbug.com/nano and www.handandstars.com



Zip-line / mutation

Collector: there is (1) known mutation in this set



NEWTON
mutation

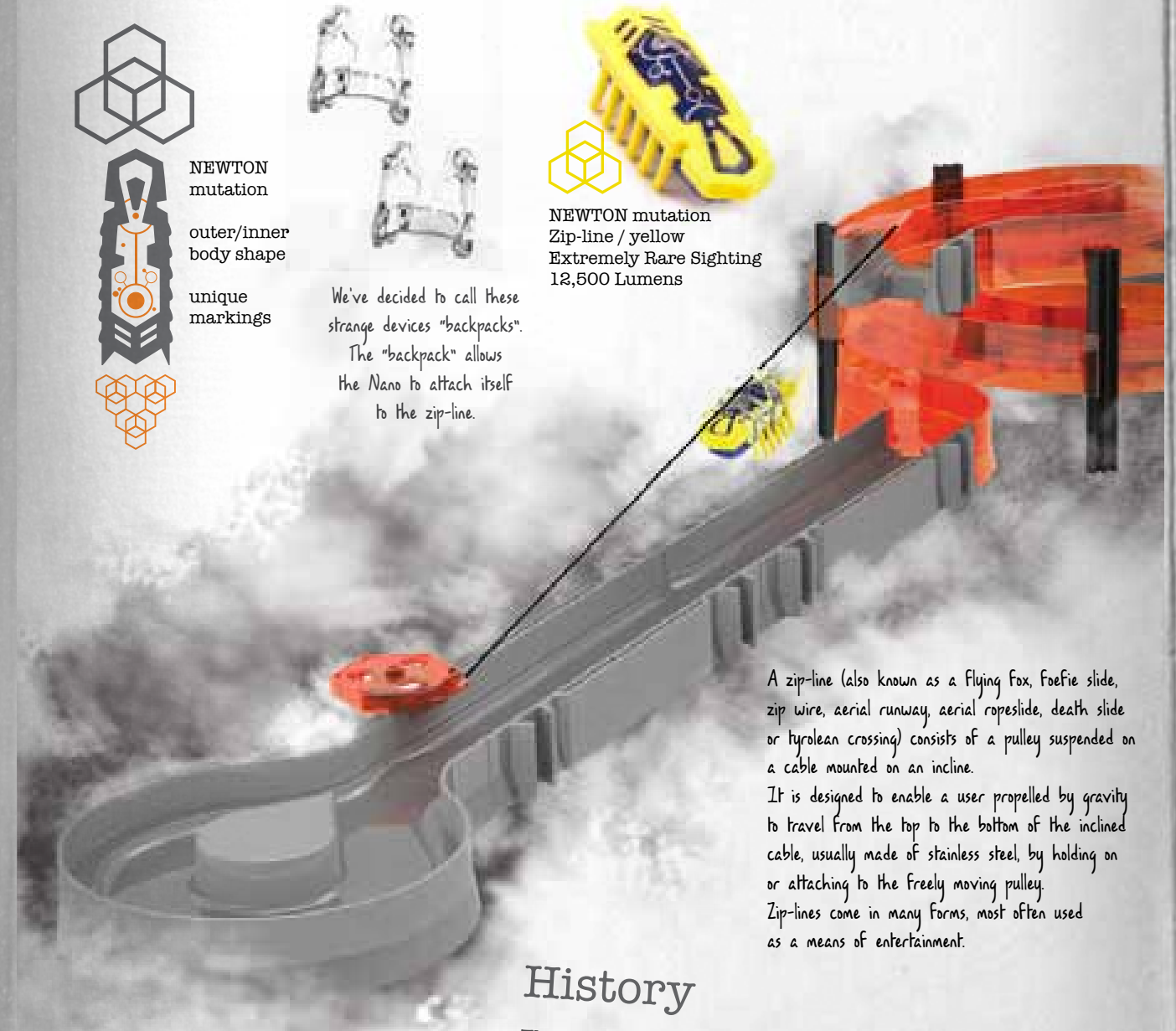
outer/inner
body shape

unique
markings



NEWTON mutation
Zip-line / yellow
Extremely Rare Sighting
12,500 Lumens

We've decided to call these
strange devices "backpacks".
The "backpack" allows
the Nano to attach itself
to the zip-line.



A zip-line (also known as a Flying Fox, Foefie slide, zip wire, aerial runway, aerial ropeslide, death slide or tyrolean crossing) consists of a pulley suspended on a cable mounted on an incline.

It is designed to enable a user propelled by gravity to travel from the top to the bottom of the inclined cable, usually made of stainless steel, by holding on or attaching to the freely moving pulley.

Zip-lines come in many forms, most often used as a means of entertainment.

History

The zip-wire is not a recent invention. It has been used as a transportation method in some mountainous countries. In some remote areas in China, zip lines serve the purposes of bridges across rivers. Referred to as "an inclined strong", one appears in The Invisible Man by H.G Wells, published in 1897, as part of a Whit-Monday fair.

Are they constructing
zip-lines as a means of transportation?
We are still investigating this amazing discovery!



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Bridge Battle / mutations

Collector: there are (2) known mutations in this set.



Two nanos enter the arena to battle.
Only one can win!



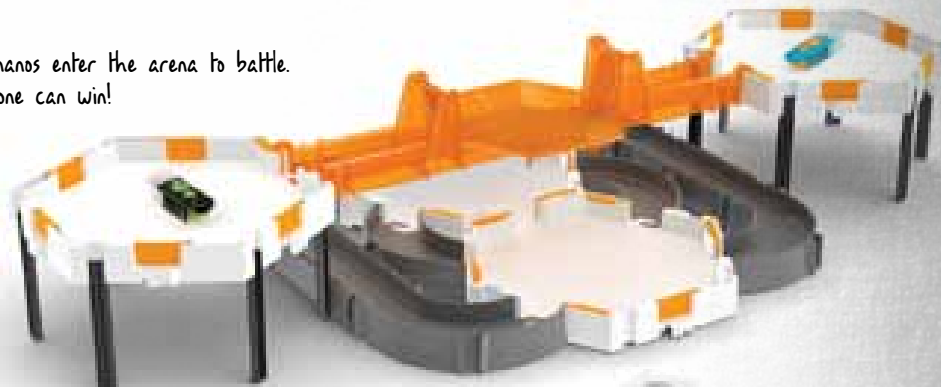
NEWTON
Bridge Battle
mutations

unique
markings



NEWTON
Bridge Battle
mutations

unique
markings



NEWTON mutation
Bridge Battle / black
Extremely Rare Sighting
12,500 Lumens



NEWTON mutation
Bridge Battle / white
Extremely Rare Sighting
12,500 Lumens



Raceway / mutations

Collector: there are (2) known mutations in this set.



Do nanos have a competitive nature?
These red and blue nano mutations
challenge one another on a racetrack!



NEWTON
Raceway
mutations

unique
markings



NEWTON
Raceway
mutations

unique
markings



NEWTON mutation
Raceway / blue
Extremely Rare Sighting
12,500 Lumens



NEWTON mutation
Raceway / red
Extremely Rare Sighting
12,500 Lumens



Elevation / mutations

Collector: there are (2) known mutations in this set.



NEWTON
mutation

outer/inner
body shape

unique
markings



NEWTON mutation
Elevation / blue
Extremely Rare Sighting
12,500 Lumens



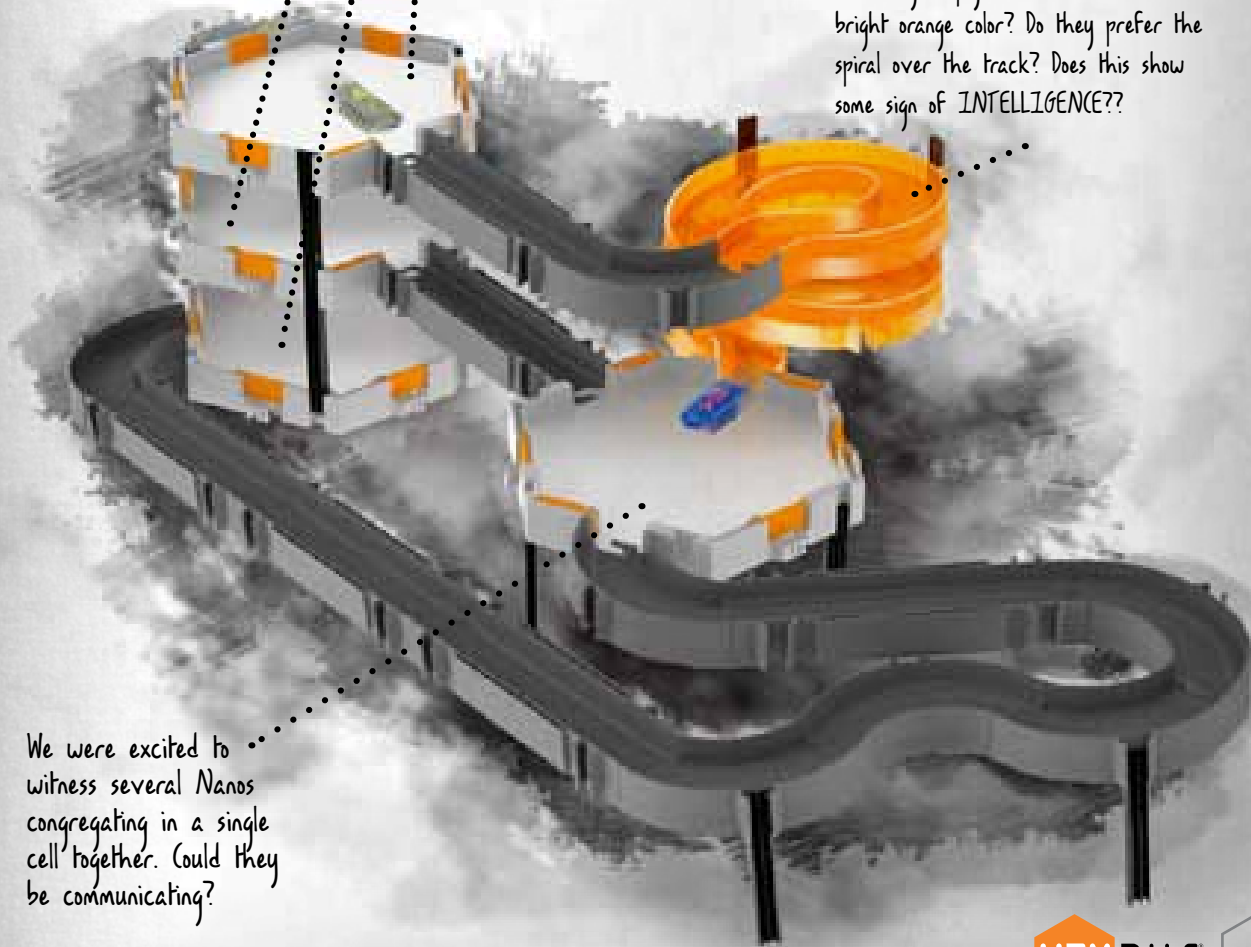
NEWTON mutation
Elevation / grey
Extremely Rare Sighting
12,500 Lumens



Various height levels
allow for optimal social
interaction within
the colony.

The Nanos seem to be drawn to the spiral.
Are they simply attracted to the
bright orange color? Do they prefer the
spiral over the track? Does this show
some sign of INTELLIGENCE??

We were excited to
witness several Nanos
congregating in a single
cell together. Could they
be communicating?





Collector's case / mutation

Collector: there is (1) known mutation in this case.



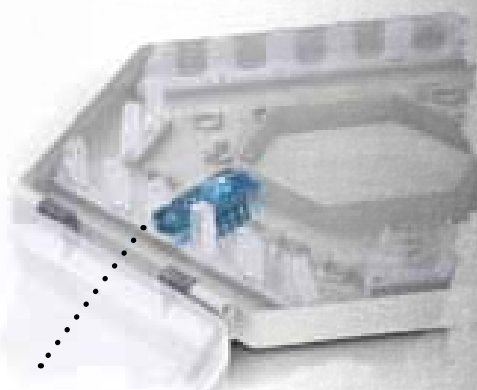
NEWTON
mutation

outer/inner
body shape

unique
markings



NEWTON mutation
Collector's Case / blue
Extremely Rare Sighting
12,500 Lumens



Do these creatures require rest? Relaxation?
Is this some sort of resting area?
We are still researching this new discovery!



The Hive / mutation

Collector: there is (1) known mutation in this set.



NEWTON mutation
Hive / white
Extremely Rare Sighting
12,500 Lumens

This appears to be some kind of
fitness center. Here they exhibit
physical activity by sprinting
up and down a ramp,
weaving through peg
mazes, and interacting with
obstacles. Are they training
for something?



NEWTON
mutation

outer/inner
body shape

unique
markings



Peg with flag



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Construction Habitat / mutations

Collector: there are (2) known mutations in this set.



NEWTON mutation
Construct / orange
Extremely Rare Sighting
12,500 Lumens



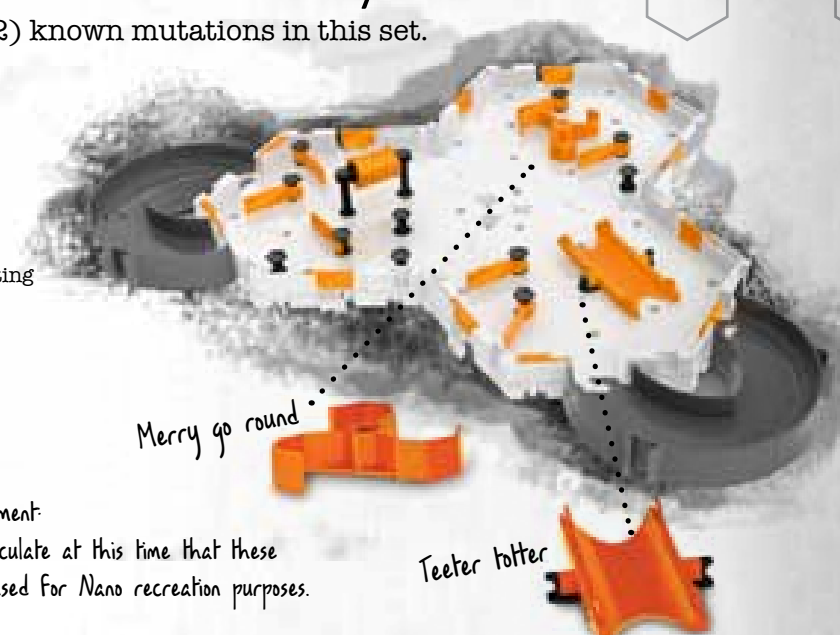
NEWTON mutation
Construct / purple
Extremely Rare Sighting
12,500 Lumens

Playground equipment:

We can only speculate at this time that these
structures are used for Nano recreation purposes.

Merry go round

Teeter totter



Construction Elevation / mutations

Collector: there are (2) known mutations in this set.



NEWTON mutation
Construct Elevation / grey
Extremely Rare Sighting
12,500 Lumens



NEWTON mutation
Construct Elevation / blue
Extremely Rare Sighting
12,500 Lumens



NEWTON
mutation

outer/inner
body shape

unique
markings



CONSTRUCT
HABITAT SYSTEM
NEW! modular parts To BUILD AND CONFIGURE

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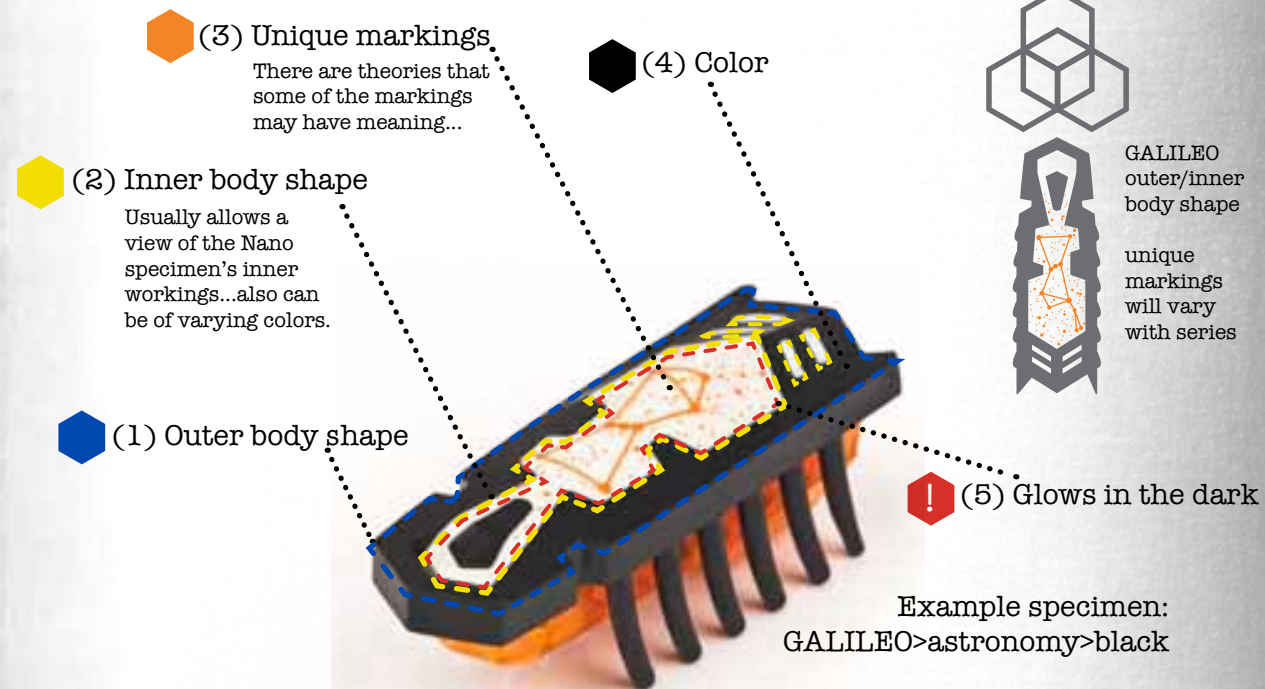
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GLOWS IN THE DARK™



GALILEO Identification steps

Collector: there are (5) steps one should use to identify and categorize a Galileo Nano specimen:



GALILEO Nano swarm locations



NATURE FACT
In real creatures, Bioluminescence is a form of luminescence, or "cold light" emission; less than 20% of the light generates thermal radiation.



GALILEO series /astronomy

Collector: there are (5) known varieties within this series.



Night Sightings

Date: August 5, 2010
Time: 1:48 am
Location: Laredo, Texas
Nano colonies consist of a series of underground chambers, connected to each other by small tunnels.
Food source is undetermined at this time though they seem to come out at night ONLY.
(perhaps to forage???)

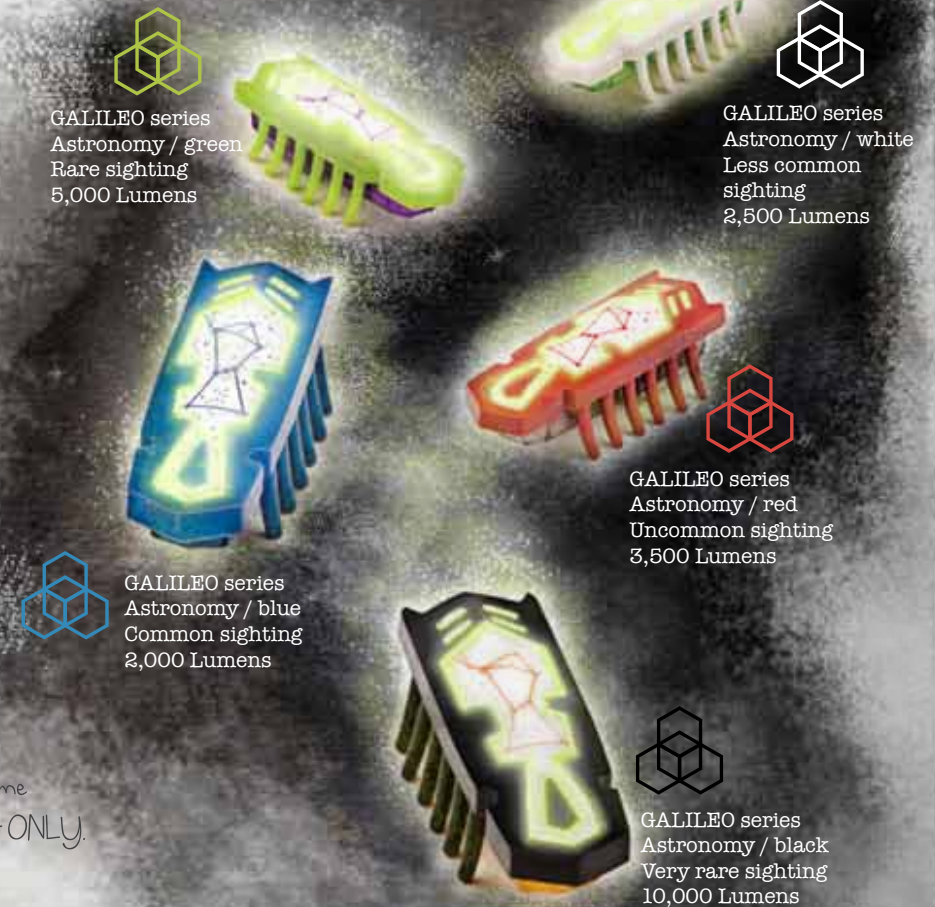
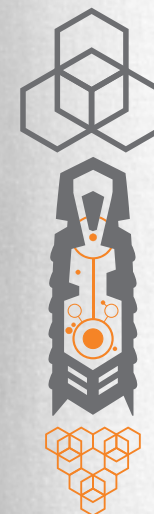
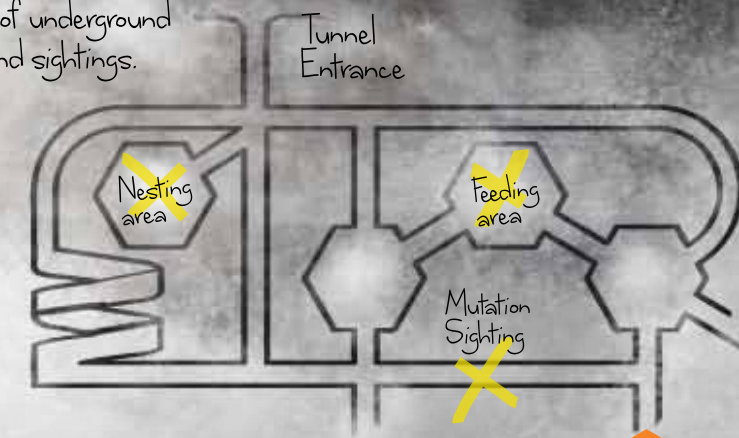


Diagram of underground tunnels and sightings.





Glow in the Dark Starter / mutation

Collector: there is (1) known mutation in this set



Galileo
mutation

outer/inner
body shape

unique
markings



GALILEO mutation
GID Starter / black
Extremely Rare Sighting
12,500 Lumens



GLOWS^{IN}THE DARK



Glow in the Dark Habitat / mutations

Collector: there are (2) known mutations in this set



GALILEO mutation
GID Habitat / white
Extremely Rare Sighting
12,500 Lumens



GALILEO mutation
GID Habitat / blue
Extremely Rare Sighting
12,500 Lumens



GLOWS^{IN}THE DARK

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Glow in the Dark Elevation / mutations

Collector: there are (2) known mutations in this set



Galileo
mutation

outer/inner
body shape

unique
markings



GALILEO mutation
GID Elevation / white
Extremely Rare Sighting
12,500 Lumens



GALILEO mutation
GID Elevation / blue
Extremely Rare Sighting
12,500 Lumens



GLOWS^{IN}THE DARK

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SPECIAL Editions / collectible EASTER Edition



Clips attach to Nanos.
Are they disguises
or decorations?

HALLOWEEN / mutations

Collector: there are (2) coffins and (1) known mutation.



Holiday
mutation
outer/inner
body shape
unique
markings



More clips found attached to Nanos.
Is it camouflage?
Are they hiding from something?



HOLIDAY mutation
Halloween / black
Extremely Rare Sighting
12,500 Lumens

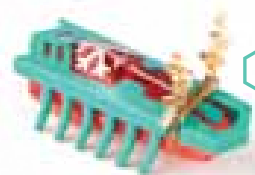


HOLIDAY / mutations

Collector: there are (2) known mutations in these ornaments.

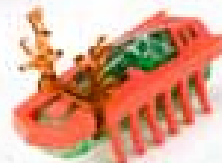


Holiday
mutation
outer/inner
body shape
unique
markings



HOLIDAY mutation
Holiday / green
Extremely Rare Sighting
12,500 Lumens

Clips that resemble antlers
were seen on these green
and red Nanos.
Do Nanos celebrate holidays?



HOLIDAY mutation
Holiday / red
Extremely Rare Sighting
12,500 Lumens



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HEXBUG Larva

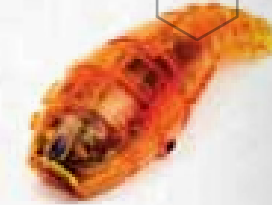
Data Complete

Researchers have spotted other creatures
that resemble some sort of grub worm.
We decided to simply identify this species as "larva".

In nature the caterpillar is the larvae
(the baby) of both a butterfly and a moth.
After around 2-3 weeks, the caterpillar
builds itself into a cocoon where it remains
a pupa for a further 2 weeks. The caterpillar
then emerges having grown wings.



larva
MICRO ROBOTIC
CREATURES



HEXBUG Spider

Data Complete

Arachnids are a class
(Arachnida) of joint-legged
invertebrate animals in the
subphylum Chelicerata.



While searching caves off the coast
of Africa, we noticed odd lasers
tracking us through the darkness.
Upon closer inspection we realized
the lights were coming from brightly
colored spider-like creatures.
It seemed these "spiders" had no
will of their own. They were being
controlled by something or someone!

NATURE FACT
In nature there are many spiders
that don't produce webs! Six-
spotted Fishing Spiders are often
seen with legs on the water to sense
vibrations from potential prey.

spider
MICRO ROBOTIC
CREATURES

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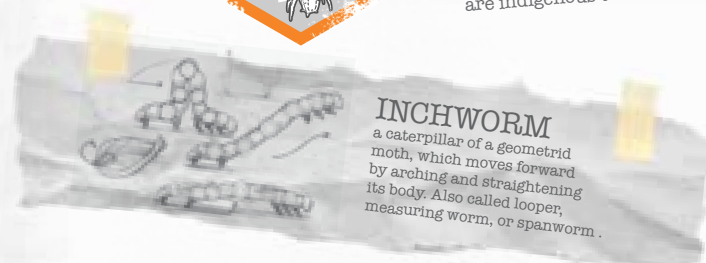
HEXBUG Inchworm

Data Complete

Found this creature in five amazing colors. Walks and spins at your command.



INCHWORMS have a voracious appetite and spend their entire life feeding. Although the majority are herbivorous, there is a species that is carnivorous. Carnivorous inchworms are indigenous to Hawaii.



INCHWORM
a caterpillar of a geometrid moth, which moves forward by arching and straightening its body. Also called looper, measuring worm, or spanworm.



HEXBUG Ant

Data Complete

A bug that races around, changing direction if it touches something in its path has been identified as the HEXBUG Ant.



ANTS smell and feel with their antennae. An ant's sense of smell rivals that of a dog.

The Ants have been discovered in five brilliant hues. We wonder if there are any more out there.



FACT
If you could run as fast for your size as an ant can, you could run as fast as a racehorse.

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HEXBUG Original

Data Complete



If it senses something in its path it will back up and change direction. Is this a self defense mechanism? Loud noises startled the bug and made it run the other way! Does it have organs sensitive to sound??



HEXBUG Crab

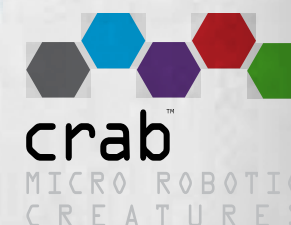
Data Complete



On sunny days, crabs must find shade or dehydrate and risk perishing!



One of our interns stumbled upon this Crab-like creature while on vacation on South Padre Island! As of today, we have found five different colors of this species.



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