# classification

## task cards

### Station 1- Binomial Nomenclature

WHAT is binomial nomenclature?

WHO invented binomial nomenclature?

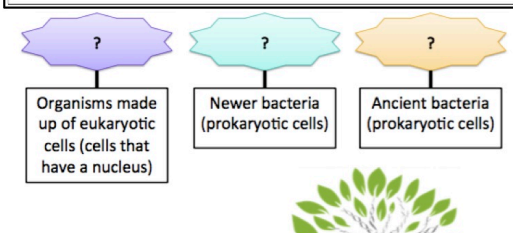


### Station 2- Binomial Nomenclature

A friend of yours from Alaska refers to the brown bears that roam near her house, and you wonder if these are the same bears that live near you, which you call Grizzly bears. You also have another friend that lives in a different region of Alaska, who calls brown bears Kodiak bears- but his friend, who is a native Alaskan, calls Kodiak bears tuquka-aq!

All 3 of you live in different areas, and all refer to the brown bears as different names. Could they be the same species? Using this as an example, explain why binomial nomenclature and classifying organisms comes in handy.






### tion 4- What's in a n

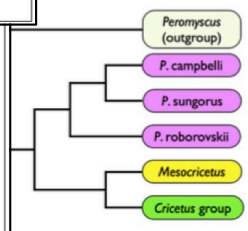
| Taxonomy Level | Classification |
|---|---|
| Domain | Eukarya |
| Kingdom | Animalia |
| Phylum | Chordata |
| Class | Mammalia |
| Order | Perissodactyla |

### tation 5- Scientific Names

g table includes a partial classification of 5 organisms. Using the information determine the scientific name for each.

| orilla | Earthworm | Sunflower | Shitake mushroom | E. Coli |
|---|---|---|---|---|
| ominidae | Lumbricidae | Asteraceae | Omphalataceae | Enterobacteriaceae |
| orilla | Lumbricus | Helianthus | Lentinula | Escherichia |
| orilla | Terrestris | Annuus | Edodes | Coli |

e to write the names following the correct rules of binomial nomenclature .




Phodopus is a genus found within the hamster family. The diagram at right organizes the species found in the Phodopus genus.

A clade is a group that reflects a common ancestor.

### Station 7- Convergent Evolution

**Compare the two tables, which list the classification of an opossum vs. the classification of a spider monkey.**

| Taxonomy Level | Opossum |
|---|---|
| Domain | Eukarya |
| Kingdom | Animalia |
| Phylum | Annelida |
| | mmalia |
| | himorphia |
| | elphidae |
| | delphus |
| | giniana |

| Taxonomy Level | Spider Monkey |
|---|---|
| Domain | Eukarya |
| Kingdom | Animalia |
| Phylum | Annelida |
| Class | Mammalia |
| Order | Primate |
| Family | Atelidae |
| Genus | Ateles |
| Species | Belzebuth |

### tion 7 continued-

**les, which list the classification of an opossum vs. classification of a spider monkey.**

s of the Primate Order is opposable thumbs, yet posable thumbs, and are not Primates. They are ly. When comparing opposable thumbs among er monkeys, how might you describe this trait?







**23 STATIONS PLUS STUDENT RECORDING SHEET. EDITABLE.**

biology roots

# 23 STATIONS TOTAL



1



2



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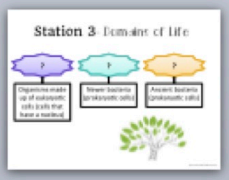

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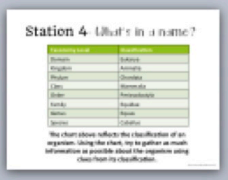

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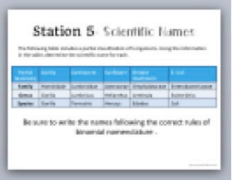

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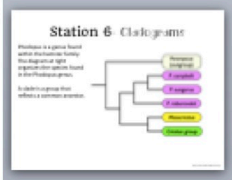

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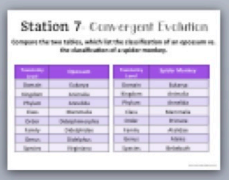

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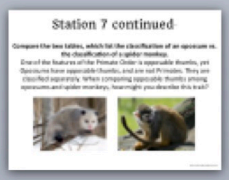

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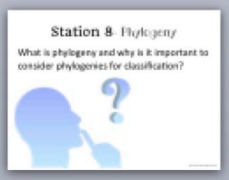

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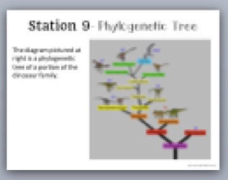

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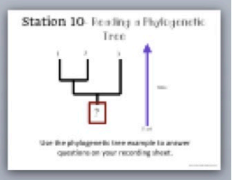

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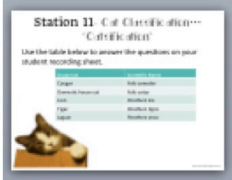

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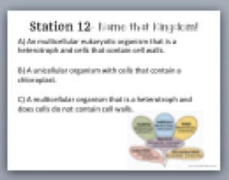

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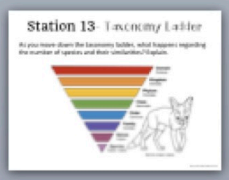

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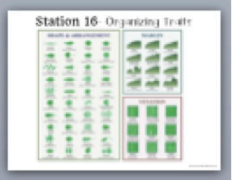

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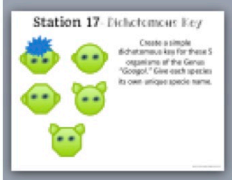

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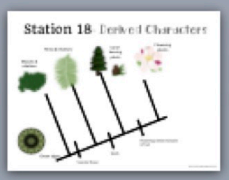

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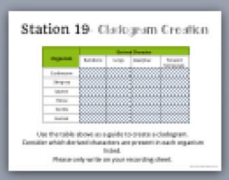

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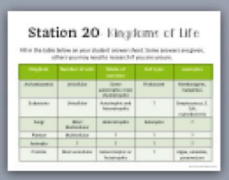

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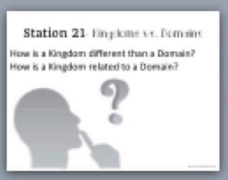

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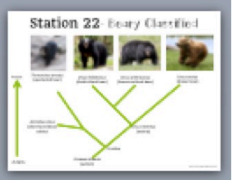

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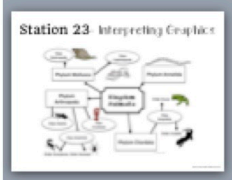

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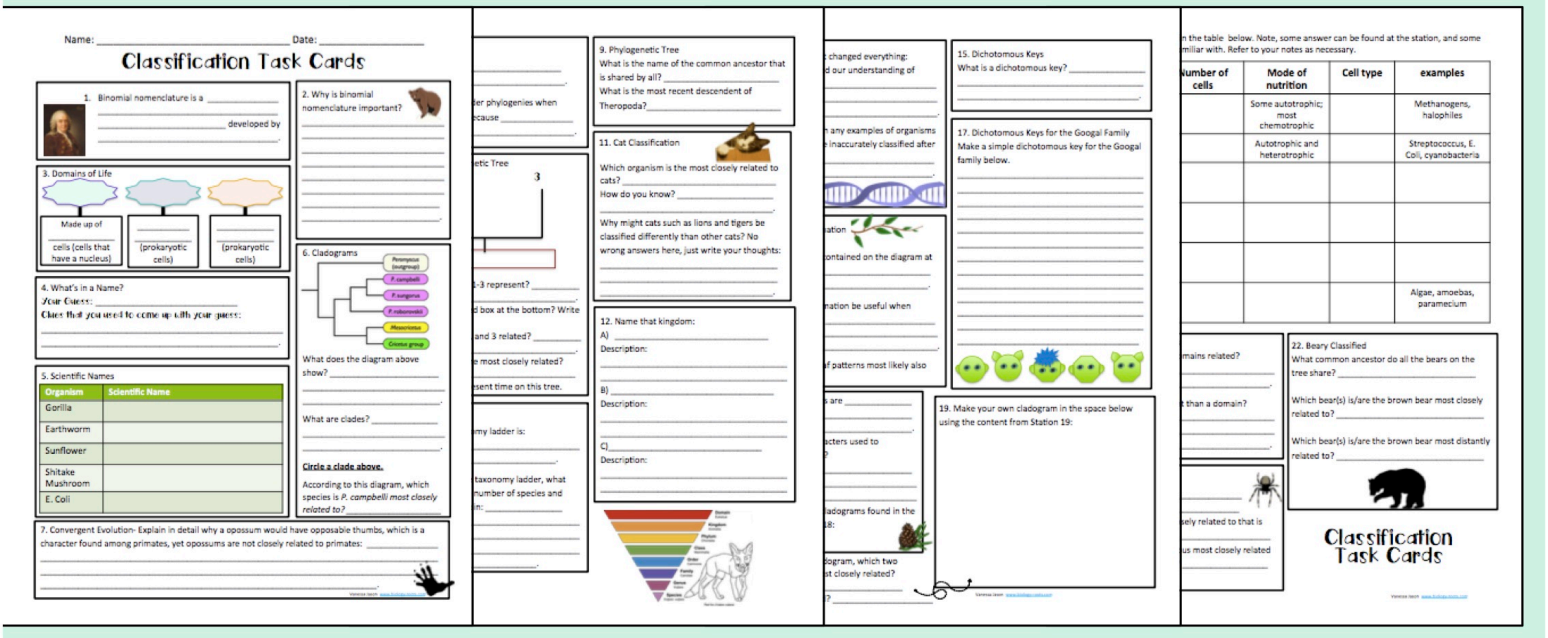
Editable version included

# STUDENT RECORDING SHEET- 4 PAGES



## TOPICS COVERED:

- Binomial Nomenclature
- Taxonomy Ladder
- Phylogeny
- Phylogenetic trees/cladograms
- Derived characters
- Convergent evolution
- Relationships
- Dichotomous Keys

## WHAT'S INCLUDED:

- Answer Key
- Classification Task Cards PDF (2 per page)
  - Editable PowerPoint version
- Classification Task Cards Student Recording Sheet- PDF
  - Editable PowerPoint version