GPS LAB

Key to decode your clues:

| а | b | С | d | е | f | g | h | i | j | k | 1 | m | n | 0 | р | q | r | S | t | u | ٧ | W | Х | У | Z |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |

Group name: _____

| Current Waypoint Elevation Latitude Longitude Latitude Longitude Current Waypoint Elevation Latitude Longitude Latitude Longitude | | Answer to Question | Math to calculate | Next waypoint # |
|--|-------------|--------------------|-------------------|-----------------|
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| Elevation Latitude | Current | | | |
| Latitude Latitude | | | | |
| | Elevation | | | |
| Longitude | Latitude | | | |
| | Longitude | | | |

| | - | _ |
|---|--|-------------------------------|
| Name of Group | Waypoint Name | Instructor use only |
| Bats | You are at "start" | start |
| Question | To calculate your next waypoint. | J432 |
| To put things into groups | 400+30+2= | |
| is to do what? | | Answer: Classify |
| Answer: | Is the number sentence above written in standard form or expanded form? | · |
| | Waypoint is: J | |
| Name of Group | Waypoint Name | Instructor use only |
| Bats | You are at "J432" | J432 |
| | | J222 |
| Question What tool is shown in the | To calculate your next waypoint: | 1222 |
| picture below? | The first letter of the answer is (code value:) | Answer: Microscope |
| | (code value) x 10 = | |
| | | |
| | (previous number sentence product) + 92 = | |
| | | |
| Answer: | Waypoint is: J | |
| | T | Ι |
| Name of Group | Waypoint Name | Instructor use only |
| Bats | You are at "J222" | J222 |
| Question | To find your next waypoint | J021 |
| A is the role | Use the code to find the value of the answer. | Answer: niche |
| that an organism has in an | Then subtract 18. | 7 mower. mene |
| ecosystem. | | |
| | | |
| | Waypoint is: J0 | |
| Name of Group | Waypoint Name | Instructor use only |
| Bats | You are at "J021" | J021 |
| | You are at Jo21 | |
| Question | The last letter in answer: (code value) | J332 |
| | | |
| Some cave animals are | The last letter in answer (code value) | Answer: Blind |
| Some cave animals are | | Answer: Blind |
| because they | Value x 100: x 100 = | Answer: Blind |
| because they do not need eyesight to | Value x 100: x 100 = | Answer: Blind |
| because they | | Answer: Blind |
| because they do not need eyesight to | Value x 100: x 100 = | Answer: Blind |
| because they do not need eyesight to survive. | Value x 100: x 100 = Product – 68 = Waypoint is: J | |
| because they do not need eyesight to survive. | Value x 100: x 100 = Product – 68 = Waypoint is: J | Instructor use only |
| because they do not need eyesight to survive. Name of Group Bats | Value x 100: x 100 = Product – 68 = Waypoint is: J Waypoint Name You are at "J332" | Instructor use only J332 |
| because they do not need eyesight to survive. | Value x 100: x 100 = Product – 68 = Waypoint is: J Waypoint Name You are at "J332" Final Clue!!! | Instructor use only |
| because they do not need eyesight to survive. Name of Group Bats Question | Value x 100: x 100 = Product – 68 = Waypoint is: J Waypoint Name You are at "J332" | Instructor use only J332 J137 |
| because they do not need eyesight to survive. Name of Group Bats Question You are a biologist. A | Value x 100: x 100 = Product – 68 = Waypoint is: J Waypoint Name You are at "J332" Final Clue!!! Use the code to find the numeric value of the answer. | Instructor use only J332 |
| because they do not need eyesight to survive. Name of Group Bats Question | Value x 100: x 100 = Product – 68 = Waypoint is: J Waypoint Name You are at "J332" Final Clue!!! | Instructor use only J332 J137 |

| Name of Group | Waypoint Name | Instructor use only |
|---------------------------|---|--------------------------|
| Cave Snails | You are at "start" | start |
| Question | To calculate your next waypoint. | J301 |
| What tool is shown in the | | |
| picture below? | Three hundred one | |
| | | Answer: Magnifying glass |
| | Is the number sentence above written in word form or | |
| | expanded form? | |
| | | |
| | | |
| Anguari | Mounciptio | |
| Answer: | Waypoint is: J | |
| | | |
| Name of Group | Waypoint Name | Instructor use only |
| Cave Snails | You are at "J301" | J301 |
| Question | To calculate your next waypoint: | J556 |
| | | |
| A place in which an | The first letter in answer: (code value) | Answer: Habitat |
| organism lives? | | |
| | + 548 = | |
| Answer: | | |
| | Waypoint is: J | |
| Name of Group | Waypoint Name | Instructor use only |
| Cave Snails | You are at "J556" | J556 |
| Question | To find your next waypoint: | J632 |
| Inherited Behaviors that | , , , , | |
| help animals survive. | Letter choice x 2. (x 2 =) | Answer: C |
| | Multiply by 100 (x 100 =) | |
| A. Mutation | Add 32. (+ 32 =) | |
| B. Structural Adaptations | | |
| C. Behavioral Adaptations | Waypoint is: J | |
| Name of Group | Waypoint Name | Instructor use only |
| Cave Snails | You are at "J632" | J632 |
| Question | To find your next waypoint: | J056 |
| Question | The first letter in answer: (code value) | 3030 |
| Bats relay on their sense | (6545 14145, | Answer: Hearing |
| ofto help | Value x 7: x 7 = | |
| them find food. | | |
| | Waypoint is: J0 | |
| | | |
| Name of Group | Waypoint Name | Instructor use only |
| Cave Snails | You are at "J056" | J056 |
| Question | Final Clue!!! | J137 |
| | Use the code to find the numeric value of the answer. | _ |
| You are a biologist. A | | Answer: Life |
| biologist studies | Add 5 | |
| science. | Add 100 | |
| | Wayneint is: I | |
| | Waypoint is: J | 1 |

| Name of Group | Waypoint Name | Instructor use only |
|---|--|---------------------|
| Millipedes | You are at "start" | start |
| Question | To calculate your next waypoint. | J021 |
| What tool is shown in the | | |
| picture below measures | The first letter in answer: (code value) | |
| what? | | Answer: weight |
| 0'4'9 | Subtract 2 from code value. (2 =) | |
| | | |
| | | |
| C C | | |
| Answer: | | |
| | Waypoint is: J0 | |
| Name of Group | Waypoint Name | Instructor use only |
| Millipedes | You are at "J021" | J021 |
| Question | To calculate your next waypoint: | J007 |
| 24636611 | To calculate your next waypoints | 3007 |
| A species that has no | (10 x 8) – 73 = | Answer: extinct |
| members of its kind alive | | |
| is known as being | | |
| · | Waypoint is: J | |
| N | I | T |
| Name of Group | Waypoint Name | Instructor use only |
| Millipedes | You are at "J007" | J007 |
| Question | To find your next waypoint: | J845 |
| Changed body parts that | Letter chaice v.A. / | Answer: B |
| help the organism survive in its ecosystem. | Letter choice x 4. (x 4 =) Multiply by 100 (x 100 =) | Allswell B |
| iii its ecosystem. | Add 45. (| |
| A. Mutation | . 13 | |
| B. Structural Adaptations | Waypoint is: J | |
| C. Behavioral Adaptations | | |
| | | |
| Name of Group | Waypoint Name | Instructor use only |
| Millipedes | You are at "845" | J845 |
| Question | To find your next waypoint: | J048 |
| | Use the code to find the numeric value of the answer. | Answer: Sound |
| Echolocation helps cave | Cultura d 25 | |
| animals survive by using | Subtract 25. | |
| waves. | Waypoint is: J0 | |
| | waypoint is: 30 | |
| Name of Group | Waypoint Name | Instructor use only |
| Millipedes | You are at "J048" | J048 |
| Question | Final Clue!!! | J137 |
| • | Use the code to find the numeric value of the answer. | |
| You are a biologist. A | Add 5 | Answer: Life |
| biologist studies | Add 100 | |
| science. | | |
| | Waypoint is: J | |
| | | |

| Name of Group | Waypoint Name | Instructor use only |
|---------------------------|--|---------------------|
| Salamanders | You are at "start" | start |
| Question | To calculate your next waypoint. | J845 |
| The blind salamander is a | | |
| vertebrate or | 800 + 40 + 5 = | Answer: vertebrate |
| invertebrate? | | |
| | Is the number sentence above written in standard form or | |
| | expanded form? | |
| Answer: | | |
| | Waypoint is: J | |
| | | |

| Name of Group | Waypoint Name | Instructor use only |
|---------------------|--|---------------------|
| Salamanders | You are at "J845" | J845 |
| Question | To calculate your next waypoint: | J072 |
| The highest or most | | |
| general group of | The first letter in answer: (code value) | Answer: kingdom |
| organisms is the | Multiply by 7: (x 7 =) | |
| · | Subtract 5. (5 =) | |
| | | |
| | Waypoint is: J | |

| Name of Group | Waypoint Name | Instructor use only |
|--|-----------------------------|---------------------|
| Salamanders | You are at "J072" | J072 |
| Question | To find your next waypoint: | J007 |
| The tool below measures | | |
| what type of | Letter choice x 4. (x 4 =) | Answer: B |
| measurement. | Subtract 1 | |
| H. H | Waypoint is: J00 | |
| A. Weight Measurement | | |
| B. Linear Measurement | | |
| C. Capacity Measurement | | |

| Name of Group | Waypoint Name | Instructor use only |
|-----------------------|---|---------------------|
| Salamanders | You are at "J007" | J007 |
| Question | To find your next waypoint: | J349 |
| | Use the code to find the numeric value of the answer. | Answer: Cave |
| A troglobite can only | | |
| survive in a | Multiply by 10 . (x 10 =) | |
| | Add 39. (+ 39 =) | |
| environment. | | |
| | Waypoint is: J | |

| Name of Group | Waypoint Name | Instructor use only |
|------------------------|---|---------------------|
| Salamanders | You are at "J349" | J349 |
| Question | Final Clue!!! | J137 |
| | Use the code to find the numeric value of the answer. | |
| You are a biologist. A | Add 5 | Answer: Life |
| biologist studies | Add 100 | |
| science. | | |
| | Waypoint is: J | |

| Name of Group | Waypoint Name | Instructor use only |
|-----------------------------|---|---------------------|
| Cave Fish | You are at "start" | start |
| Question | To calculate your next waypoint. | J056 |
| A hollow place in the | | |
| ground where drainage | The first letter in answer: (code value) | Answer: sinkhole |
| collects? | Add 37.(+ 37 =) | |
| | | |
| Answer: | Waypoint is: J 0 | |
| | | |
| | | |
| Name of Group | Waypoint Name | Instructor use only |
| Cave Fish | You are at "J056" | J056 |
| Question | To calculate your next waypoint: | J048 |
| The tool shown below is | | |
| known as a | The first letter in answer: (code value) | Answer: beaker. |
| | Multiply by 24: (x 24 =) | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| · | | |
| | Waypoint is: J0 | |
| [| T | 1 |
| Name of Group | Waypoint Name | Instructor use only |
| Cave Fish | You are at "J048" | J048 |
| Question | To find your next waypoint: | J222 |
| A cave fish is a vertebrate | | |
| or invertebrate? | 200 + 20 + 2 = | Answer: vertebrate |
| | | |
| | Is the number sentence above written in word form or | |
| | expanded form? | |
| | | |
| Name of Group | Waypoint Name | Instructor use only |
| Cave Fish | You are at "J222" | J222 |
| Question | To find your next waypoint: | J432 |
| Question. | Use the code to find the numeric value of the answer. | Answer: YES |
| Are grasslands a biome? | ose the sade to find the name to value of the answer | 7.11.51.12.5 |
| 7 the grassianas a sionie. | Multiply by 10 (x 10 =) | |
| YES or No | Multiply by 10 . (x 10 =) Subtract 58. (+ 58 =) | |
| 123 01 140 | 305(1000 30. (| |
| | Waypoint is: J | |
| | | |
| Name of Group | Waypoint Name | Instructor use only |
| Cave Fish | You are at "J432" | J432 |
| Question | Final Clue!!! | J137 |
| Question | Use the code to find the numeric value of the answer. | 713/ |
| Vou are a higherist A | | Answer: Life |
| You are a biologist. A | Add 100 | Answer: Life |
| biologist studies | Add 100 | |
| science. | | |

Waypoint is: J

| Name of Group | Waypoint Name | Instructor use only |
|--|--|---------------------|
| Cave Cricket | You are at "start" | start |
| Question | To calculate your next waypoint. | J632 |
| An animal that hunts other animals for food. | Six hundred thirty two Is the number sentence above written in word form or expanded form? | Answer: predator |
| Answer: | | |
| | Waypoint is: J | |

| Name of Group | Waypoint Name | Instructor use only |
|-------------------------|--|---------------------|
| Cave Cricket | You are at "J632 | J632 |
| Question | To calculate your next waypoint: | J845 |
| The tool shown below is | | |
| known as a | The first letter in answer: (code value) | Answer: thermometer |
| T C 120 | Add 25: (+ 25 =) Add 800. (+ 800 =) | |
| · | Waypoint is: J | |

| Name of Group | Waypoint Name | Instructor use only |
|---------------------|---|----------------------|
| Cave Cricket | You are at "J845" | J845 |
| Question | To find your next waypoint: | J305 |
| A cave cricket is a | | |
| vertebrate or | The last letter in answer: (code value) | Answer: invertebrate |
| invertebrate? | Add 300: (+ 300 =) | |
| | | |
| | Waypoint is: J | |

| Name of Group | Waypoint Name | Instructor use only |
|--------------------------|---|---------------------|
| Cave Cricket | You are at "J305" | J305 |
| Question | To find your next waypoint: | J556 |
| Which of the following | | Answer: B |
| would be an example of a | Letter choice multiplied by 2. (x 2 =) | |
| cave adaptation? | Multiply by 100. (x 100 =) | |
| | Add 100. (+ 100 =) | |
| A.Large, bright spots | Add 56. (+ 56 =) | |
| B. Lack of eye sight | | |
| C.Large eyes | Waynoint is: I | |
| D. Large in size | Waypoint is: J | |

| Name of Group | Waypoint Name | Instructor use only |
|------------------------|---|---------------------|
| Cave Cricket | You are at "J556" | J556 |
| Question | Final Clue!!! | J137 |
| | Use the code to find the numeric value of the answer. | |
| You are a biologist. A | Add 5 | Answer: Life |
| biologist studies | Add 100 | |
| science. | | |
| | Waypoint is: J | |

Word Bank:

- Beaker
- Blind
- Cave
- Classy
- Extinct
- Habitat
- Hearing
- Invertebrate
- Kingdom
- Life
- Magnifying Glass
- Microscope
- Niche
- Predator
- Sinkhole
- Sound
- Thermometer
- Vertebrate
- Weight