Name_____Date_____Class Period_____

Atlantic Ocean

*Directions for **Atlantic Ocean**: Bullet your facts*

Describe the **Atlantic Ocean** off the coast of NJ?

Why is it important to take care of it?

Pictures/video(from Mr. B file):

Describe how the ocean is zoned:

Describe tides & its effects:

Describe wind & waves:

Why is the ocean salty?

Describe organisms found in the Atlantic Ocean off the coast of NJ (use njscuba.net

Microscopic organisms:

Invertebrates:

Shellfish:

Sea Birds:

Sea Turtles:

Sea mammals:

Fish:

Name_____Date_____Class Period_____

Beaches

Directions for Beaches: Bullet your facts

Describe the beaches of NJ?

Pictures/video(from Mr. B file):

Describe tides & its effects:

Describe waves, wind, storms along beaches:

Describe the sand of NJ beaches:

Describe sand dunes & why they are important:

What is a barrier island?

Describe salt water/salinity:

What organisms are found along the beach?

Invertebrates:

Shellfish:

Birds:

Turtles:

Mammals & sea mammals:

Plants (seaweed) & dune plants:

Other Facts:

Name_____Date_____Period_____

Estuaries

Directions for **Estuaries**: Bullet your facts

What is an estuary and why is it important?

Pictures/video(from Mr. B file):

Describe tides and its effects in an estuary:

What is brackish water?

Why does the salinity vary?

What is a salt marsh?

Describe a creek:

Describe a bay:

Describe the organisms found in an estuary:

Microscopic organisms:

Invertebrates:

Shellfish:

Crabs:

Birds:

Fish:

Turtles:

Mammals:

Name_____Date_____Class Period_____

Macroinvertebrates

Directions: Bullet your facts

What are macroinvertebrates?

Picture/video(from Mr. B file):

Why are they important?

Where are they found?

Describe how macroinvertebrates are a part of the pond food web.

Describe different macroinvertebrates:

Nymphs: describe dragonflies, damselflies, stoneflies, mayflies, etc.

Worms:

True Bugs:

Flies & fly larvae:

Fresh water; crustaceans, mollusks, snails, clams:

Spiders:

Other:

Name_____Date_____Class Period_____

Microorganisms

Directions: Bullet your facts

What are microorganisms?

Picture/video(from Mr. B file):

Why are they important?

Where are they found? Describe pond ecosystem.

:

Describe different algae:

Describe different protozoans:

Other:

Name_____Date_____ Period_____

Pinelands

Directions: Bullet your facts

What are the Pinelands?

Describe how the Pinelands are protected:

Pictures/video(from Mr. B file):

What makes the Pinelands a unique ecosystem?

Describe the different types of forests…

pine/oak:

cedar/maple/bogs:

pigmy forests:

What animals are unique to the pinelands?

What plants are unique to the pinelands?

Threatened or endangered species:

What is the Kirkwood-Cohansey Aquifer?

How is fire a part of the pinelands?

Why is the water tea colored?

Other Facts:

Name_____Date_____ Period_____

Pond Ecosystem

Directions: Bullet your facts

What is a pond? What kind of man-made ponds are in Mr. B's?

What is a vernal pond?

Why are vernal ponds important?

Zones:

Food webs:

Changes in the system:

Microscopic organisms:

Plants in & around ponds:

Macroinvetebrates:

Amphibians:

Reptiles:

Birds:

Other animals found around Mr. B's ponds:

Other Facts:

Name_____Date_____Class period____

Organisms

Common Name of Organism:

Latin Name: Genus and species

Directions: Bullet your information

Identifying characteristics/description/adaptations: (include size, color, shapes, features…of males, females, offspring, voice, etc.)

Picture/video: Will be chosen from *Mr. B* file pictures or online. If we don't have a picture in the file, then you must give credit for pictures from other sources. Save pictures you come across in your file that you may want to use in your final.

Where does it live? Describe the habitat/ecosystem. When can it be found (year round, spring/summer, winter only)? Range (ex. found from Maine to NJ)

Life cycle/reproduction: (stages, number of offspring, when does it reach maturity, life span, etc.)

What does it eat or need to survive? (plants-what does it require to grow & reproduce)

Conservation status:(abundant, endangered, threatened & why?)

Other Facts:

Name_____Date_____ Period_____

Vernal Ponds

Directions: Bullet your facts

What is a **vernal pond** and its function?

Picture/video(from Mr. B file):

Why are they important?

Habitats: types of vernal ponds

What changes occur in the system?

What organisms in prefer to use vernal ponds? (Name & describe them)

How are vernal ponds a part of amphibian life cycles?

Other Facts:

Name_____Date_____Period_____

Watersheds

Directions: Bullet your facts

What is a **watershed** and explain its function?

Picture/video(from Mr. B file):

What is the water cycle?

Why is a watershed important?

What does the Mullica River Watershed include?

Describe the two types of manmade ponds in Mr. B's:

Retention basin:

Detention basin:

What is ground water?

What is the Kirkwood-Cohansey Aquifer?

What can damage watersheds? Describe…

Point source pollution:

Non-point source pollution:

What can we do to protect our watersheds?

Other Facts:

Name: _____ **Date:** _____ **Per.:**_____

Mr. B Field Guide Notes

Organism: _____
Presenter(s): _____
Description:_____
_____
_____
Where does it live:_____
_____
Conservation Status:_____
Other Facts:_____
_____

Organism: _____
Presenter(s): _____
Description:_____
_____
_____
Where does it live:_____
_____
Conservation Status:_____
Other Facts:_____
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Organism: _____
Presenter(s): _____
Description:_____
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_____
Where does it live:_____
_____
Conservation Status:_____
Other Facts:_____
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Presenter(s): _____
Description:_____
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Other Facts:_____
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Description: _____
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Where does it live: _____
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Conservation Status: _____
Other Facts: _____
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Organism: _____
Presenter(s): _____
Description: _____
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Where does it live: _____
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Conservation Status: _____
Other Facts: _____
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Organism: _____
Presenter(s): _____
Description: _____
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Where does it live: _____
_____
Conservation Status: _____
Other Facts: _____
_____

Ecosystem: _____
Presenter(s): _____
Ecosystem description:
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Organisms include: _____
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Other Facts: _____
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Ecosystem: _____

Presenter(s): _____

Ecosystem description:

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Organisms include: _____

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Other Facts: _____

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Ecosystem: _____

Presenter(s): _____

Ecosystem description:

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Organisms include: _____

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Other Facts: _____

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Ecosystem: _____

Presenter(s): _____

Ecosystem description:

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Organisms include: _____

_____

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Other Facts: _____

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Name_____ Date_____ Period____

Research Notes

Name _____ Date _____ Period _____

Mr. B's Field Guide Ecosystem Rubric

- Title Page w/your name(s) _____
- Fact Descriptions _____
- Fact Descriptions _____
- Fact Descriptions _____
- Fact Descriptions _____
- Other facts/appropriate # of facts _____
- Neatly done/clear/bulleted facts _____
- Accurate facts/ Native to NJ/pictures/video _____
- Spelling/grammer _____
- References _____

Grade _____

Name _____ Date _____ Period _____

Mr. B's Field Guide Ecosystem Rubric

- Title Page w/your name(s) _____
- Fact Descriptions _____
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- Other facts/appropriate # of facts _____
- Neatly done/clear/bulleted facts _____
- Accurate facts/ Native to NJ/pictures/video _____
- Spelling/grammer _____
- References _____

Grade _____

Name _____ Date _____ Period _____

Mr. B's Field Guide Rubric

- Title Page w/your name/ Latin name _____
- Characteristics _____
- Habitat _____
- Life cycle _____
- Food/survival _____
- Other facts/appropriate # of facts _____
- Neatly done/clear/bulleted facts _____
- Accurate facts/ Native to NJ/pictures/video _____
- Spelling/grammer _____
- References _____

Grade _____

Name _____ Date _____ Period _____

Mr. B's Field Guide Rubric

- Title w/your name/ Latin name _____
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- Spelling/grammer _____
- References _____

Grade _____

Name _____Date_____Period_____

Mr. B's Slides Rubric

- Title Page w/your name/ Latin name _____
- Characteristics _____
- Habitat _____
- Life cycle _____
- Food/survival _____
- Other facts/appropriate # of slides _____
- Neatly done/clear/bulleted facts _____
- Accurate facts _____
- Spelling/grammer _____
- Native to NJ _____

Grade _____

Name _____Date_____Period_____

Mr. B's Slides Rubric

- Title Page w/your name/ Latin name _____
- Characteristics _____
- Habitat _____
- Life cycle _____
- Food/survival _____
- Other facts/appropriate # of slides _____
- Neatly done/clear/bulleted facts _____
- Accurate facts _____
- Spelling/grammer _____
- Native to NJ _____

Grade _____