**Gibbon Conservation Center**

**Gibbon Mask “Which species am I?”**

2nd Grade

Pre– Visit Activity

This lesson plan meets the NGSS in the areas indicated below if used as recommended. It is not however limited to these standards and can be modified as the instructor sees fit to include more or adjusted to meet the needs of other grade levels.

**Next Generation Science Standards (NGSS)**

*Interdependent Relationships in Ecosystems*

Performance Expectations

Make observations of plants and animals to compare the diversity of life in different habitats.

**Dimension #1 Scientific & Engineering Practices (SEP)**

*Asking Questions*

**Dimension #2 Crosscutting Concepts (CC**)

*Patterns*

*Structure and function*

**Dimension #3 Disciplinary Core Ideas (DCI)**

*Life Sciences*

Plants and animals have predictable life cycles. As a basis for understanding this

concept: a. Students know that organisms reproduce offspring of their own kind and that the offspring resemble their parents and one another. b. Students know the sequential stages of life cycles are different for different animals, such as butterflies, frogs, and mice. c. Students know many characteristics of an organism are inherited from the parents. Some characteristics are caused or influenced by the environment. d. Students know there is variation among individuals of one kind within a population.

**Materials**

Map

SE Asia Map

Gibbon Photos

Gibbon Masks

(color or glue)

Which species am I?

Play the CD of gibbon song

Ask the students questions about what they hear.

*Can you guys make that sound?* (mimic sounds)

*What animal do you hear?*

*Where do you think they live?*

They live in the rainforest in SE Asia

*What other animals live in the rainforest?*

*The gibbons are making many different sounds can you guess why?*

(diff. species/warning/find mate/ territory)

There are ~19 species of gibbons some are more closely related than others.

*How many species of humans are there? (*Answer for them. There is as much difference between humans as there is in each species of gibbons)

Each species has a unique/special territorial call. Individuals in a species sing the same territorial call but it might sound a little different because they emphasize different parts of the song.

You can have two students sing a song like “itsy bitsy spider” to illustrate the difference.

They also have unique/special warning calls.

Show photos of the different species at the GCC

We have 5 different species at the GCC

Show the life cycle of each species *in cartoon form.*

With each species tell them about their CCCP- Country/ Color (sex)/ Call (song)/ Population

Indicate where they are found on a map.

Sing their territorial call or play on Cd, remind them each species is different.

Tell the students how many are left in the wild.

After the last GCC species talk about the Hainan Gibbon.

Tell the students that they are endangered (there are not many left) and that the only way to save them is if we all practice conservation (protecting & limiting ourselves)

Then go through their life cycle

(See Attachment)

Now we’re going to make masks.

Give all the students either foam cut outs to glue or a mask to color.

Once they are done ask them to describe the gibbons.

Help them figure out which gibbon it is.

Have them ask you questions about the gibbon.

If they get stuck have them remember.

CCCP - Country / Color (Boy or Girl) / Call (Song) / Population

When gibbons are born they match the color of their mom. It doesn’t matter if they are boys or girls. This is to protect them from the predators in their environment. (2c)

Hoolock

Country – Myanmar

Call – ehh-whoo

Color

Adult Male

Adult Female

Adolescent Male / Female

Baby Male / Female

Population

The Life Cycle of the Pileated is similar to the Hoolock in that both species change colors; however they differ in what color they change and when they change. (2c)

Pileated

Country – Thailand, Laos, Cambodia

Call -

Color

Adult Male

Adult Female

Adolescent Male / Female

Baby Male / Female

Population – 30,000

Although the individuals in a species sing the same song, sometimes they emphasize different parts of the song. Sasha a male white cheek has a very deep call, while Pierre’s is more high pitch. Vok and Paddy, a father and son, sound very similar (2d)

Northern White-cheek

Country – Vietnam, Laos

Call – Aaaaaah / Wee Wee Wee Wee

Color

Adult Male

Adult Female

Adolescent Male / Female

Baby Male / Female

Population – 1,000

While many of the gibbons change color not all of them change. Sometimes the males and females are the same color but slightly different in size. Both male and female Siamang gibbons are black. They are also different because the males are slightly larger than the females.

Siamang

Country – Sumatra, Malay Peninsula

Call -

Color

Adult Male

Adult Female

Adolescent Male / Female

Baby Male / Female

Population

The Javan’s don’t change color either but males and females are the same size. Javan’s unlike most gibbons sing the male and female songs at different times. They do not coordinate their song like most other species. While they may seem to look very similar they all have traits that make them look unique and different personalities. Hercules looks very similar to his mom Simpang, they both have longer finer fur than the rest of the Javan gibbons at the center (More detail Khusus). (2a) (Tuk vs JR)

Javan

Country – Java Indonesia

Call – Whoop Whoop Wooooo

Color

Adult Male

Adult Female

Adolescent Male / Female

Baby Male / Female

Population – 3,000