Beginning Thoughts

Group Members:_____

Draw lines between the pictures that you think form a pair.



















| The picture of the goes with the picture of the _ | |
|---|--|
|---|--|

because_____



Discussion Sentence Frames

Starting a discussion of a pair

I think the picture of the ___ goes with the picture of the ___ because ___.

Picture 1

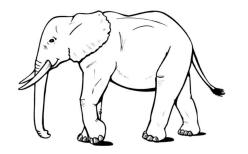
Responding to a discussion of a pair

Group ____ said ____ and I agree with group them because ____.

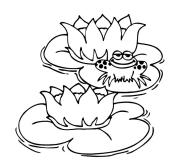
Number Or

Group ____ said ____ and I respectfully disagree with them because ____.

Number



What can we Learn From Plants and Animals?



Discussion Summary

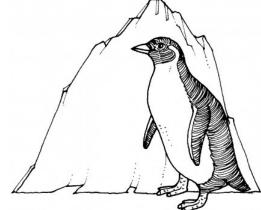
| l agreed with group | when they argued the picture of the |
|-----------------------------------|---|
| | th the picture of the |
| because | · |
| I disagreed with group | when they argued the picture of the |
| goes wit | th the picture of the |
| because | |
| | goes with the picture of the |
| ISIUP | nd fill out the class sentence frames about what hals have that humans have copied. the picture that your teacher shows. |
| Penguins have | that allow them to |
| but humans cannot do this without | |

Procedure

- 1. Make a "jacket" using up to three materials. The jacket must be one piece and removable.
- 2. Record the materials that you used and draw a picture of your jacket.
- 3. Pull the metal person/thermometer out of the hot water and put your jacket on them.
- 4. Time how long it takes the thermometer to get to 40°C. You are not allowed to touch your jacket while the temperature is dropping.

| , | , | |
|---|---|----|
| Results | | |
| Materials Used: | | |
| | | |
| Draw a picture of your jacket: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | Ø. |
| | | |

Time to get to 40°C:_____



Materials

- Shammy
- Thick Felt
- Fat
- Craft Feathers
- Thin Felt
- Cotton



Animal Structures

- Blubber
- Long Fur
- Outer Feathers
- Short Fur
- Skin
- Inner Feathers

Summary

| I think | which mimicked | | worked |
|-------------------|---|----------------------------|--------|
| | Material | Animal Structure | |
| the best because | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| I think | which mimicked | | worked |
| N | which mimicked aterial | Animal Structure | |
| the worst hecaus | <u></u> | | |
| the worst because | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| You do not | Discussion Sentence Frames | | |
| need to write in | Starting a discussion of a pair | | |
| this box. | | worked the best/worst best | 21100 |
| 0 | I think the which mimicked w Materials Animal Struct Responding to a discussion of a pair | ture | ause |
| | Responding to a discussion of a pair | | |

Group ____ said ____ and I agree with them because ____.

Group ____ said ____ and I respectfully disagree with them because ____.

Number

Number

Review Questions

| 1. | Do humans do everything better than plants and animals? If not, list one thing that a plant or animal can do better than a human? |
|----|---|
| | |
| 2. | What is one feature of an animal that you mimicked in your jacket? |
| 3. | What is one animal that has this feature besides penguins? |
| 4. | What is something else humans mimic from plants or animals? |
| | Plant or Animal we are Mimicking Trait we are Copying Invention Why do scientists argue? |
| | I can't believe how much we have learned from animals |







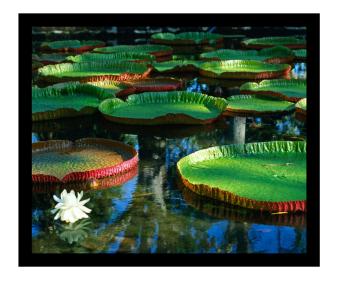




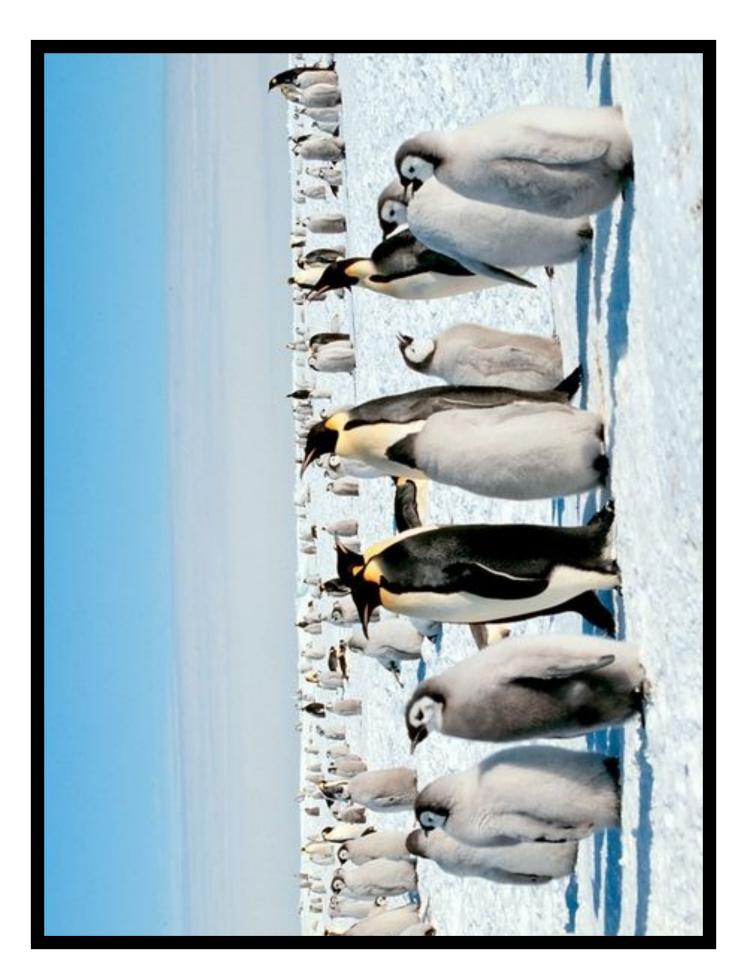












Use the Following Sentence Frames to Discuss Which Pictures Make A Pair



Pictures

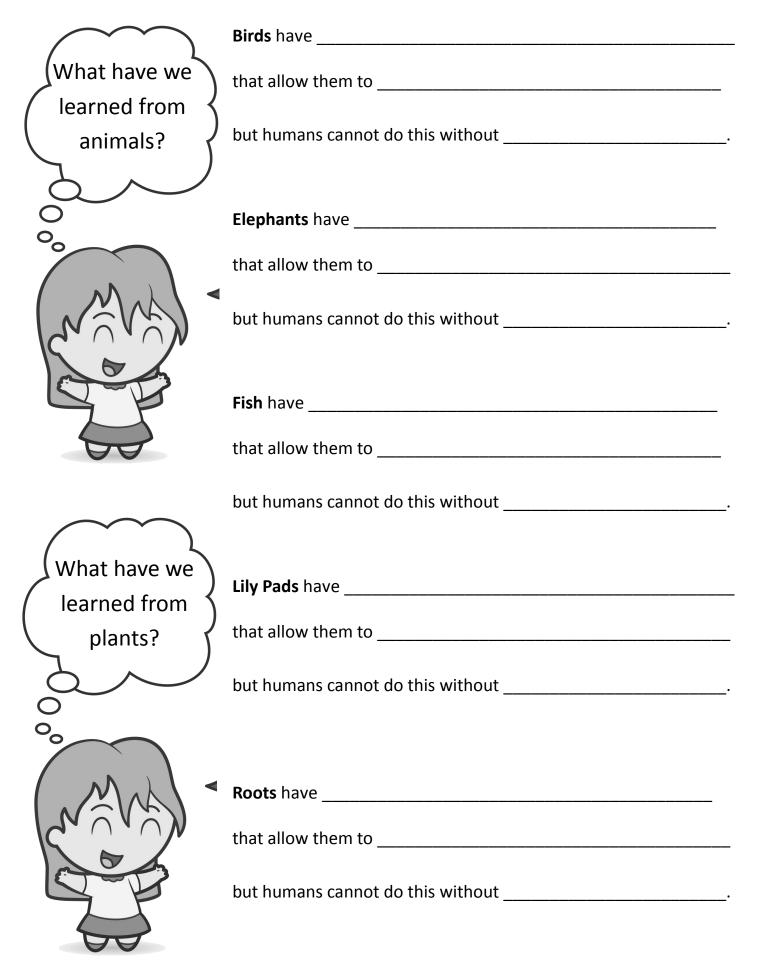
Bird Elephant Plane

Lily Pads Scuba Gear Roots

Shower Straw Raft

Fish

| Starting a discussion of a pair | | |
|---|--|--|
| I think the picture of the goes with the | | |
| picture of thebecause | | |
| Responding to a discussion of a pair | | |
| Group said and I agree with them | | |
| because | | |
| Or | | |
| Group said and I respectfully Number Summary of What You Heard | | |
| disagree with them because | | |





Cotton



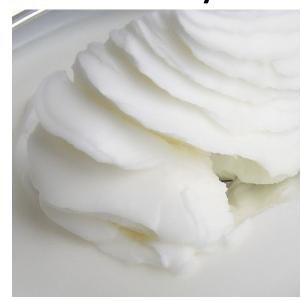
Craft Feathers



Thick Felt



Shammy



Fat



Thin Felt

| Group | Materials Used | | Time to get to 40°C | Notes |
|-------|----------------|-----------|------------------------|-------|
| | Cotton | Shammy | | |
| 1 | Craft Feathers | Fat | | |
| | Thick Felt | Thin Felt | | |
| | Cotton | Shammy | | |
| 2 | Craft Feathers | Fat | | |
| | Thick Felt | Thin Felt | | |
| | Cotton | Shammy | | |
| 3 | Craft Feathers | Fat | | |
| | Thick Felt | Thin Felt | | |
| | Cotton | Shammy | | |
| 4 | Craft Feathers | Fat | | |
| | Thick Felt | Thin Felt | | |
| | Cotton | Shammy | | |
| 5 | Craft Feathers | Fat | | |
| | Thick Felt | Thin Felt | | |
| | Cotton | Shammy | | |
| 6 | Craft Feathers | Fat | | |
| | Thick Felt | Thin Felt | | |
| | Cotton | Shammy | | |
| 7 | Craft Feathers | Fat | | |
| | Thick Felt | Thin Felt | | |

Use the Following Sentence Frames to Discuss How Well the Materials Functioned

| Н | ow well the ivi | iateriais Fun |
|-------------------------------------|-----------------|------------------|
| |) | <u>Materials</u> |
| Use the following words to help you | Shammy | Thick Felt |
| b | Craft Foothors | Thin Folt |



Animal Structures

Fat

Cotton

Blubber Long Fur Outer Feathers
Short Fur Skin Inner Feathers

| Starting a discussion of a pair |
|--------------------------------------|
| I think which mimicked worked |
| the because |
| Responding to a discussion of a pair |
| Group said and I agree with them |
| because |
| Or |
| Group said and I respectfully |
| disagree with them because |
| |