

EYV? RZ\_R HZUZW7UVRZ\_YRdSW\_R|VUcZ\_VgZ\_^V\_d|VUFTRZ\_Wc\_VRj ' &j VRcZ7c^`fc  
DIY`j|R U9RSZRe ac XR` R\_UdRIVch`d`d`ade`CR\_XcCZTC`^RkZ\_VR\_U`fcRrRUhZ\_ZX  
e|VgZ\_d`hdR\_U|}^d?H7dUj\_R`ZVUFTRZ\_VWcadRIV`feè YJa aVajVUZT gVdMaVZ\_VTR\_U  
T\_\_VtehZyèVhZUz`fch`dUz

7 c^`dVRS`fe?H7dVUFTRZ\_ac XR` d`gZefdRehhhZ`hVcZ

EYV? RZ\_R HZUZW7UVRZ\_`dKeep the Wild AliveC ac XR` ZIR` R`SZZfdV\_UR\_XcUdVIZdTR`aRZ`èRe  
RZ`dè`SfZUd`aa`cèWc\_V\_UR\_XcUdVIZdLV\_XR`èVafS|ZTZ`dVIZdT`d`gRZ`\_WwcedR\_U`^`gVdèVdR  
Z`aVZUdVIZdT|`dè`è`dT`gVjZ

7 c^`dVZ`Wc`RZ`\_RS`feèVKeep the Wild AliveTR`aRZ`L`cè`|Rc`RS`fedZ`a|VRIZ`dj`f`TR`dR`Ve`YJa  
V\_UR\_XcUdVIZdLa|RVgZèèVKeep the Wild Aliveh`SdVRehhhZ`hVcZ`VaeVhZURZ`c`TR|`i`#`#`(`I`)!`Z

7 f\_UUZ`"\*%#L`eVZ`VaeVTRIZ`dVIZ`èVh`\_Ucd`VeV|Z`X`Rf`d|h`dUz



EYV2K2 R\_UZdRITVUZUk`R\_URfRZ`^`^`V`SVdT`dR`ej`dèZVè`^`RZ`èZ`èVYZYVè`dR`URdZ`hZU  
|ZWIRVR`UT`d`gRZ`\_ZÈ`UW`\_`dè`ReVèZIT`^`^`Zè`V`d`2K2`^`V`SVdaReZARVZ`gVc`(!`T`aVègV  
T`d`gRZ`\_`|ZW` Z` ó

ac`|MedSV`V`èZ`XhZUZW`dU`hZUz

2K2IRITVUZUk`dR\_URfRZ`^`dU`h`gV`S%`^`ZIZ`\_gZè`cdVRIYj`VRZH`Zy`èVZ`Z`T`^`aRfS|VT`^`^`Zè`V`e  
è`T`d`gRZ`\_` RZ`^`dQ` è`cWR\_URYR`W`ZIZ`\_dVIZ`èV`V`W`WYR`XZ

HVRV`ac`fU`WfcU`UZRZ`\_è`T`d`gRZ`\_R`U`dV`TVR`UT`d`gRZ`\_VUFTRZ`\_Z`\_#`!!`R`\_V`2K2`^`V`I  
SVcd`aa`cèU`gVc`##`!`T`d`gRZ`\_R`URd`TR`U`dV`dV`èZ`TR`U`VUFTRZ`\_R|`ac`|MedZ`\_)``T`f`\_èZ`d`h`dU`hZUz  
:\_`èV`d`R`\_Vj`VR`\_gVc`&`L`!!`g`|f`\_èV`dT`\_èZ`f`èU`gVc`gV`^`ZIZ`\_Y`f`cdè`d`aa`cè`2K2`^`V`SV`k`d`R`U  
R`f`RZ`^`ZÈ`Yc`f`XY`ac`|Med|Z`VèV3`f`èV`c`j`4`\_`d`gRZ`\_`\_`Z`èV`VR`U`èV`c`|`TR`\_Wwced`2K2`Z`dèZ`èZ`\_dR`V  
SVT`^`Z`XT`^`^`f`\_Zj`T`d`gRZ`\_TV`èV`Z4`\_`dR`ej`f`c`|`TR`RITVUZUk``c`R`f`RZ`^`è`}\_U`f`èY`h`j`f`TR`  
XèZ`g`|gU`Z`Z`èV`h`h`Z`RZ`c`X`c`TR|`i`S`!`"/`&`#`!`(((`è`|Rc`\_`^`d`Z



=ZV^ R\_j `eYcSf eAc-ZdL  
eYV<Rc\_VcS|fVSf eAc-j WdVd  
^ R\_j Yf^ R\_HTRf dUR\_U  
\_Rf dR] eYVdUf cZ\_XZdUWd  
V\_e|ZW]T]VdRdZ\_T]fUZ\_X  
eYVW] hZ\_X

**Fire suppression**+2 YZè g `W  
dè aa\_Z\_X` cadgV\_eZ\_X\_Rf|  
dR]j `Tf cZ\_X} dYRd]Uè  
h`UR\_UR\_UWVdè dTIVdZ\_L  
hYZY]T] ddeYVWdèTR`aj  
R\_US]Td`fe|ZYeYRe]faZ\_V  
R\_U`eYc d\_H] gZ\_Xa]R\_ ed\_WU  
è d cZ\_VZEYdYRdTR dUR] d|  
`Vf\_ZR]V<Rc\_VcS|fVSf eAc-j  
YRSZReR\_URUMVdVZ\_a`af|  
]RZ\_d`VhZ]U]faZ\_VhYZY  
UaV\_U`\_} dVè VZ\_ZReVedW  
T\_gVcR\_U`aV\_fa eYVIR`aj\_Z  
`dVcè `SeRZ\_eYVd`\_ZYeYVj  
\_WUWcX`hèYZEYdYf^R  
R]èZ\_YRdeVXVdèZ\_aR]è`\_  
TRècaZ]RdSVIRf d'eYj Rvd]M  
]j UaV\_UV\_e`\_]faZ\_VWcW\_U  
SfeZ\_R]d dUFTVda`af]RZ\_d  
`WVIRc\_a]R\_ edf dUSj Rf]eZ  
7ZVd adVdZ\_U\_Vd`eRWWèR]  
Sf eAc-ZdZ

**Urban/suburban development**+  
EYVT\_eZ\_fR] dcdh] `W  
T\_dcfTèZ\_VcY f dZ\_XR\_U  
dY`aaZ\_XTV\_eYdYRdhZaWU`fe  
^ fTY`WèVSf eAc-j dYRSZRe  
èc fXY feZd dR\_XZ

**Lack of snow and snowpack  
during winter**+6XXdRv]RZU\_Z  
eYVW]R\_U^ R] YRgVè d d  
gZ\_VYRdYhZ\_eAc eV`aVdRf d d  
SWWcYReY\_Z\_XZ\_eV d cZ\_XZ  
HZ\_eAc d`hdac`eVTeVXXdW^

4 :eZleZ Ve RdV SJVSf d  
 eč-Zd 8ZVRIY df UV\_eRaZV  
 TjVR Vc`caZIV`W`\_dfTēZ\_  
 aRaVc`e`fdVrdeYVSf eč-j`d  
 S`UjZH ZY eVZ WfchZ XL  
 YRgVdf UV\_eJfV`cPaVeh`  
 hZ\_Xde`VRIY dLV`VēVS`UjZ  
 :WVdVLYRgVdf UV\_eUT I  
 dReVYZ Sf eč-Zd JV`\_V  
 `VēVj`TRj dVIZLd TY RdR  
 ^`\_RcY`ckScRdRj] hēVZ  
 Ac`gLVaZf dRdMR`aVēZ  
 9RgVdf UV\_eJRSV eVZ Sf ečd  
 ~Zd dVIZd`\_eVSRIZ`VēVj  
 hZMdf UV\_eTR`TRVR`eV I  
 \_RVVcēVZ Sf eč-Zd`fe`W  
 aZAVIjR VēZ

5 2d df UV\_eL *What do but-  
 terflies need to survive? Have you  
 seen any butterflies in our school-  
 yard or in your own backyard?*  
 DY h df UV\_e dVgV] aZf d d  
 `VēVj`TRj Sf eč-ZdR UēV  
 a]R\_e dēVdV Sf eč-Zd\_WUē  
 d cōgVZ *Do we have these in our  
 schoolyard?*=VēdX }\_U`fe

6 *For Grades 3-4* ERVdf UV\_e  
 `fēLVVcRSf eč-j a]R\_e  
 Yf`ēZ dRXc`faLdRcTY Wc  
 eVajR\_ej`f ZLV\_e VZ2]ēd  
 \_RēVjLUZLVdf UV\_eZ\_e  
 Xc`fadR UYRgVRIY Xc`fa ]`\  
 Wc`\_VdVIZ`TajR eZ5 VāV\_U  
 ZX`\_ēVēZ`V`VjVRēdf UV\_e  
 TR`Rd ]`\  
 Učh hYReēVj dWZ`R`Rf cV  
 [fc\_Rj`c`\_RdWē`VāRāVZ

*For Grades K-2* 9RgVdf UV\_e  
 ]`\  
 Xc`f`UdR UUčh hYReēVj  
 dW`\_RaZIV`VāRāVc`cZ`R

\_Rf cV[fc\_RjZ2`RēVc`RēZVZd  
 ē`Tfe`fedfRdV`W`\_df`Tf  
 ēZ`\_aRaVc`WZV\_eT ]`cēZ  
 9R`U`fe`\_V`c`^`dViUāV\_U  
 ZX`\_ēVj]gVj`VēVdf UV\_e  
 dfRdV`VāVgV] UZV\_eT ]`cd  
 ē`VRIY df UV\_eZERVdf UV\_e  
 `feē`ēVdY``jR U`c`ēVc  
 `fēU`c`RARR UYRgVēV  
 ]`\  
 WcSf eč-Zd`c`~`hVd  
 ēReYRgVēVZ`T ]`cZ`Zē`W  
 a`dSjLYRgVēV ]`\  
 Wc  
 Sf eč-Zd`c`~`hVdeYReYRgV  
 ^`dVēR`\_V`VēVZ`T ]`cēZ  
 2d df UV\_e dē`SdVgVēVdV  
 R`Z`RdajR\_e dTRēVj] R`U  
 Učh eV`hYV`ēVj`dēfc`  
 ē`TjRēZ

ZHYV`j`f`dēfc`\_ē`ēV  
 TjRē`^`LVR`Z`Vj`f`c`d`f`]ēZ  
 > RVR]Zē`c`ēZ`a]VdVēYVd  
 `VēVajR\_e dR`Uē`c`Sf eč-Zd  
 j`f`Wf`\_UēZ *Could you add any  
 plants to make the schoolyard a  
 better place for butterflies?*  
 4`\_dLVc]R\_eZ`X`c`dRēZ`X  
 RSf eč-j`XRUV`RdāRē`VR  
 DIY`j`jRU9RSZē`ē`ēVZ`Zē  
 hhhZ`hVēX`dY`j`jRUYSZē

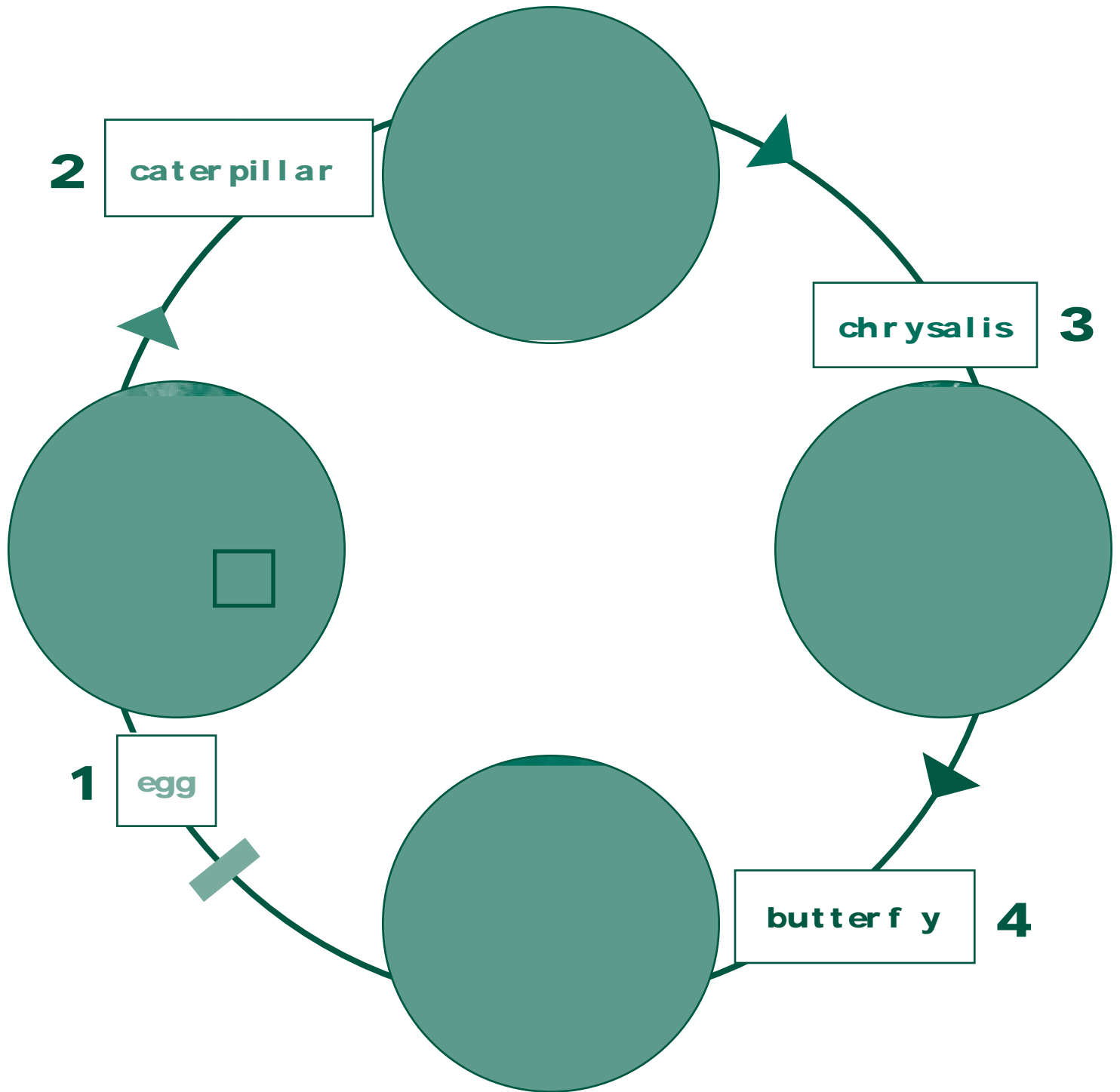
9 RgVdfUV\_edaZ\ Ra|RVè  
dèR UR\_UeW\_SWZ è a|R|  
^ f dTRdeVdfUV\_éd^ `gV  
Rè f\_UèVIZ|]ZH YV\_ èV  
^ f dT è adR|] dfUV\_édY f|U  
dè a hYVVeYj RVR\_UaZ\ fa  
èV\_VRèbaZIV` VaRaVZ`Which  
*LifeC de tag are they?2d R|]*  
dfUV\_édè dèZVRA` dRIZV  
èV|ShVQRf èVè|] ZX f èRa Tè ad f aZQ fèV`  
èVèRè|]Z\ WXèZ è  
RSR|èVèAZ\è f\_UVèZZ  
EYV\_Lè|] èV` è ^ `gVRS` fe  
R URlèèVZ |ZVèR|WèR  
Wh ^^ ^ V\_èZ

EWA     °     `W     `     è ^ `gV`  
XUan ^ R Rlè è dèZV     `f\_EYH ^ UagXèZ Vè



# WORKSHEET

## Butterfly Life Cycle



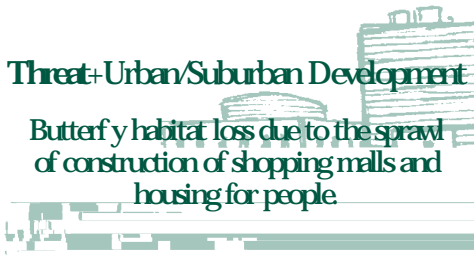
# Butterfly Threats

Directions: Read the text and answer the questions. Write your answers in the space provided.



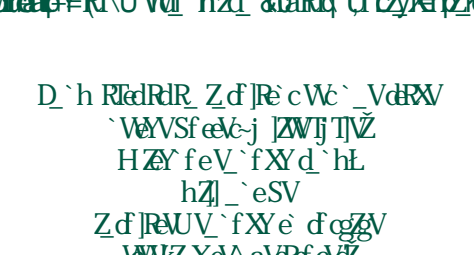
**Threat: Urban/Suburban Development**

Butterfly habitat loss due to the sprawl of construction of shopping malls and housing for people



**Threat: Pesticide Use**

Pesticides used to control insects that damage crops can also kill butterflies and other beneficial insects.



'X2TÀG" W ÉÑááÿRtU Vñ hzd `kãRq"UfEzYpZkVZSpY ("UTT1 ac%11'q" C0



## Df ^ ^ Rcj

Students study the role of butterflies in pollination.

8 cRUV =VgV]d 3-8

EZ^ V+dVgV] T]RhaVZ UdcaVRU  
`fe`gVc dVgV] hWdZ

Df S[VTea science

DVZ]d observation, prediction,  
description, research

=VRc\_Z\_X @S[VTeZ]d

Students will be able to:

- ✓ Describe the process of pollination.
  - ✓ Identify butterfly roles in pollination.
  - ✓ Name several different kinds of butterflies
- > ReVcZ]d"
- ✓ Notebooks
  - ✓ Pencils
  - ✓ Cut flowers
  - ✓ Photos of flowers and butterflies
  - ✓ Magnifying glasses



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5 H Y V j ` f d f c e e V T J R d  
 c ` ^ L Y R g v d f U V e d h c z e v e v z  
 b f v e z \_ d ` \_ J R X v d z a d ` v a R a v c  
 R U X g v e v ` e j ` f z ` ` \ R e  
 e y v b f v e z \_ d R U d c e e v ` S j  
 T R a X g L i U e a c ^ z \_ U S j e v  
 b f v e z \_ d e v ` d m g v d L R U e v  
 a ` d e R c f \_ U e v c ` ` ^ z e v  
 T R a X a d j ` f Y R g v U e a c ^ z \_ v z  
 E Y z h z j X g v j ` f R T Y R T v e  
 V z z R e v b f v e z \_ d e R e R v  
 v e v c z R a a c a c z e v z c v g R e d  
 ` c h z j S V z a ` d S j v e R i e f R j j  
 Z g v e z R e v X g v e v e z V R U  
 ^ R e v z j d R U j e m ` v e f U v e d  
 j ` f Y R g v R g z j S j v z h Y z v j ` f  
 R v U z X e y z L d f U v e d T R  
 v e v c e R V R S c v R L U R h z j f d e R  
 e z \_ d ` v e v S f e e c - z d e y j d h L  
 ` c W i f d ` \_ d ^ v e z X v d z

6 2 d d f U v e d e d a v \_ U R W h  
 ^ z f e d h R U v z X e y c f X Y e v  
 c ` ^ L j ` ` \ z X R e e v b f v e z \_ d  
 R U a z v z X ` \_ v e y R e v ^ ` d e  
 z e a v d U z d f U j z X z 9 R g v  
 d f U v e d W e ^ d R j X e f a d S R U  
 ` \_ h Y z Y b f v e z \_ d e y j a z v z

7 : \_ e v z X e f a d L R d d f U v e d  
 e U g v a R z g v e z R e z \_ a j R  
 W e Y h e y j h z j R d h v e v z  
 b f v e z \_ ` W Y z v z *What materi-  
 als do they need? How much time  
 do they need? What are the steps  
 in their investigation?* 9 R g v e v  
 j j ` f e e v z z g v e z R e z \_ a j R d  
 z R d ^ f T Y U e v z R d a ` d S j v z  
 4 Y v T z h z Y v R i Y X e f a e  
 a c g L v e v h z Y R d h R T v c  
 ^ R v j z e d ` W R e v z j d e y j h z j  
 \_ v u z

8 : v j ` f Y R g v e z v L Y R g v  
 d f U v e d T R c j ` f e e v z z g v e z  
 X R e z \_ d c ` g c e v e z v \_ W U U  
 e T ^ a j v e v e v z z d e v e v  
 R d v v d R j L h Y v e v j R a a v c  
 d f T L S f e v T f d R v e v ` e  
 V a j ` d v R d ^ f T Y R d a ` d S j v z  
 z j j h d f U v e d e T \_ U T e  
 e v z z g v e z R e z \_ d z e  
 S f e e c - j z a j R e z e v R e z \_ d z

9 9 R g v d f U v e X e f a d X g v  
 a d v e z \_ d ` e v z T \_ j j f  
 d z \_ d L d R z X e y v z W e ^ R z \_  
 e y j T j j v a U e y c f X Y e v z

✓

\_\_\_\_\_















3f eelc-ZdRVTZZR T ^ a`\_V ed`VV Tz\_ZXVT d dV dUFVe eVZ  
Vj c`VdRda`jZ R e cdR URdZ UR e cd`VT d dV` YR eZ3f eelc-Zd  
RVRd SVj gUSj eVafSjZLhYZY ZjR Xj f`RhRcVeRe^ Rj dV  
TZdRv eVcRv`U`c`V UR XAUZEYV? RZ`Rj HZUJZW7UVRZ`YRd  
[ZVUeYV2^ VZR`K``R\_U2bfRZ^ 2d TZR`R\_UeYVf ZYZY  
R\_UH ZUJZWDogZVZ`R^ f]eZj Vc 3f eelc-j 4`\_d cRZ`:\_ZYZY  
RZ`Z`Xe`V`YR`TV dT gVj`VZ`aVZ`USf eelc-j a`af jRZ`dZ`?`eY  
2^ VZRR`U`dVafSjZ`RhRcV`VdR`f e eYVVT`]`XZR`c`j`V`Vsf eelc-Zd  
R\_UeYV`WUe`ac dVgVeYV`R\_UeYV`YRSZReZ

? H 7 YRd^ Rj ac`XR`deYRe Wf d`\_Sf eelc-ZdR`Uac`gZV`aa`cf l  
\_ZAd e`YMa T`\_d cV eV`LZ`Tj f UZ`XeYV`Keep the Wild Alive`TR`aRZ`L  
3R`j`RUH`ZUJZW9`RSZRe`R`UDIY``j`RU9`RSZReZ5`dR`Z`X`\_`eY  
T`\_d cRZ`\_`R`UVf`TRZ`\_`V`aVZ`TV`V eYV`U`Z`V`eac`XR`d? H 7  
h`f`j`U`Z`Ve`ac`gZV`d`g`V`R`^``U`j`ac`[V`deYRe`TR`SV`R`d`j`TR`c`ZU`f e  
h`Z`Y`ch`Z`Y`fe`f`c`R`H`R`TVZ

EYV^ RZ`\_S[V`eZAd`V eYV`ac`[V`edR`V`"/`e`V`YR`TV`d`f`U`V`ed`\_\`h`j`U`X`V`Vsf eelc-j`VT`]`X`j`R`U  
T`\_d cRZ`\_`e`c`f`X`Y`Y`R`U`d`\_`LZ`e`d`R`eZ`V`j`V`c`Z`X`V`a`V`Z`V`T`d`#`e`d`R`V`af`S`j`Z`R`h`R`c`V`V`d`V`e`Y`V`e`Y`R`d  
e`Sf eelc-ZdR`UeYV`WUe`T`\_d cV eV`^`R`US`e`X`g`V`d`f`U`V`ed`aa`cf`\_ZAd e`T`\_eZ`f`e`V`e  
Z`a`V`Z`USf eelc-j`ac`e`V`eZ`\_`R`UY`RSZRe`d`e`d`eZ`\_Z

Ac`[V`e`"+4`c`V`R`e`V`R`D`T`Y``\_`j`j`R`d`U`3`f`e`e`l`c`~`j`9`R`S`Z`R`e





2cK\_R  
 2cK\_RD\_`r5Vdce> fdf^LEfTd\_  
 4RZVc\_R  
 @R|R\_UK`L@R|R\_U  
 DRDR\_Ve`K`LDRDR\_Ve`  
 DR\_5ZX\_HZU2\_Z\_R|AR\L6dT\_UZ  
 DR\_7r\_TZT`K`LDR\_7r\_TZT`  
 DL\_7|Rd> RZ\_VH`qULGR|V`  
 4`J`dRU  
 4YV\_V\_> `f`eZ`K`L4`J`dRU`DacZ\_Xl  
 5V\_gcK`L5V\_gc`  
 AfVS`K`LAFVS`  
 4`\_VteZfe  
 3VRUdV`K`L3cLXa`ce  
 5Zte`V`J`f`S`R  
 D`Zd`Z`?RZ`R`K`J`XZ|AR\LHRIZ\_Xe`  
 7J`cUR  
 3cV`RUK`L>`VS`fc\_V  
 4RZSVR\_8RUU`d`EYVK@@`Z`?Ra|Vl?Ra|Vd  
 4V`eR`7J`cURK`L=RV>`\_c`V  
 >`Z`Z`V`c`K`L>`Z`Z`  
 :|Z`Zl  
 3c`V`VUK`L4YZR`  
 9V`d`\_`C`SZ`d`\_`K`L`DacZ\_X`VU  
 :\_UR\_R  
 7`ceHR`\_V4YZUV`dK`L7`ceHR`\_V  
 :\_UR`Ra`|ZIK``ZHYVCZVc`8RUU`d`:\_UR`Ra`|Zl  
 >`Vd`V`AR`K`R\_U3`d`R`Z`8RUU`d`6g`R`d`Z|V  
 <V`efTj  
 =`f`Z|V`K`L=`f`Z|V`  
 =`f`Z|R`R`  
 2f`US`\_`:\_`d`M`RZ`^`L?`Vh`@`q`VR`d  
 >`R`d`R`Y`f`d`V`e`d`  
 7R`\_`|Z`AR`K`L3`d`e`\_  
 >`ZYZR`  
 5V`c`Z`K`L5V`c`Z`  
 >`Z`\_`Vd`eR`  
 >`Z`\_`Vd`eR`K`L>`Z`\_`Vd`eR`|Zl  
 >`Zl`f`cZ`  
 5Z`V`d`\_`AR`K`L`DacZ\_X`VU  
 DRZ`e=`f`Zl`K`L`D`Z`=`f`Zl`  
 ?`V`S`c`R`d`R`

7`Jd`^`4YZUV`dK`L=Z`T`\_`  
 ?`Vh`\_`V`c`d`J`  
 3V`X`V`\_`4`f`\_`g`K`J`XZ|AR\LAR`f`d`  
 ?`Vh`J`\_`d`  
 3c`\_i`K`L3c`\_i`  
 ?`Vh`J`\_`d`D`R`V`=Z`Z`X>`f`d`f`^`L`H`R`V`e`h`\_`  
 C`d`R`\_`\_`U`8`Z`W`U`K``R`e`3`f`c`\_`V`e`A`R`L`D`d`R`f`d`V`  
 C`d`A`R`K`L`3`Z`X`R`e`\_`  
 DV`V`I`R`A`R`K`L`C`T`Y`V`d`e`  
 ?`\_`ceY`4R`c`J`R`  
 ?`\_`ceY`4R`c`J`R`K`L`2`d`V`S`\_`c`  
 @`YZ`  
 4Z`T`Z`\_`R`Z`K``R`\_`U`3`\_`d`R`Z`R`8`R`U`V`L`4`Z`T`Z`\_`R`Z`  
 4J`V`R`U`>`V`e`a`R`d`K`L`4J`V`R`U`  
 4`J`f`^`S`f`d`K`R`\_`U`2]`C`d`A`

e\_h\_



## Alignment with National Science Education Standards

	3f ee/c-j = ΔW 4j TJV	A` IJZ_ReZ_ _ ARoe_Vod	8 c/Re 3f ee/c-j > ZKdReZ_ _
<b>DE2? 52C5D</b>			
<b>D4:6? 46 2D :? BF :CJ</b>			
Science as inquiry		✓	
<b>=:76 D4:6? 46</b>			
Characteristics of organisms	✓	✓	✓
Life cycles of organisms	✓		
Organisms and environments	✓	✓	✓
Structure and function		✓	
Reproduction and heredity	✓		
Regulation and behavior	✓		✓
Diversity and adaptations		✓	
Populations and ecosystems	✓		✓
<b>D4:6? 46 2? 5 E 649? @=@8J</b>			
Technological design			
Understanding about science/technology			
<b>D4:6? 46 :? A6CD@? 2= 2? 5 D@4:2= A6CDA64E:G6D</b>			
Populations, resources, environment	✓		✓
Risks and benefits			
Science/technology in society			
<b>9:DE@CJ 2? 5 ? 2EF C6 @7 D4:6? 46</b>			
Science as a human endeavor			
Nature of science		✓	
<b>A9JD:42= D4:6? 46</b>			
Properties and changes in properties in matter			



