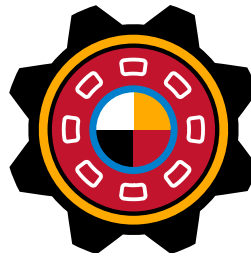


# KAYKWAY OOMA LAANJIINYEURN ITOOTTA



## PARENTS AND TEACHERS,

All children love to play and explore the world in different ways. They invent bulldozers with their boots in the snow, or create bubbles by splashing through puddles. They also design solutions to problems by finding a way to climb up on a counter to nab a cookie! Children can be very imaginative and innovative when presented with a challenge!



**aboriginal access  
to engineering**

These qualities – imagination, creativity, inventiveness, problem-solving and design skills – are all hallmarks of budding engineers.

Canada's engineering profession needs more young people to build solutions for the future, and Aboriginal communities have the youngest population in the country. Canada's Aboriginal communities also need the skills that an engineering education can provide. Whether the need is for a cleaner environment, new homes, better communications infrastructure or more efficient heating systems, Aboriginal engineers will make important contributions to community development.

We invite you to use this book as a first step in introducing children to What Engineers Do. The Engineering and You, Design Challenge and Experiment sections are intended to let you explore engineering concepts in an immediate, hands-on way in order to bring this book to life and have children recognize their relationship to engineering.

Many of the pages feature activities that can also be found as interactive games on our website, [aboriginalaccess.ca](http://aboriginalaccess.ca). Other resources are also available on our website, such as curriculum guides, learning modules and role model profiles of practicing Aboriginal engineers. You may also keep up to date on developments in science, technology, engineering and math education for Aboriginal peoples through our mailing list and the social media networks that are linked on the site.

We hope you enjoy discovering along with your children what engineers do!

# KAYKWAY OOMA LAANJIINYEURN ITOOTTA



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Kaykway Ooma Laanjiinyeurn Itoota nishtum design ka kii ishinakwuhk miina ka kii kiishichikaatew naandow 2002. Ooma Mitchif la laang edition aya ooshihtowak oki Faculty of Engineering and Applied Science, Queen's University.

# Kishkayhteen kaykway laanjiineurn itoota?

Laanjiineurn mitooni kayshchinahoo di loo emiyaawsik tamiinikwi. Wiiyawow ooshtaawak l'ikol miina kwaayesh kanawayhtamwak lii graan bwaa. Minna wiichihiwiwak la tayar katapishchipoohata, ooshtaawak shmavn miina monahtihkaywak mines. Laanjiineurn mischayt kaykway itootam da- wiichihât li moond miina enn vii.

Kiishpin laanjiineurn kii wiitatatoshkaan, sa praan aen atooshkayhk l'ikol. Miina kinwaysh kii itoohtayyenn l'ikol. Maaka itayhta sa si boon ka kishkayhtayiin aen atooshkayhk avek si koom aen bufloo, taa osshtaayiin la michinn, miina enn map lii chiiraan. Laanjiineurn oohiin itootam miina. Bet nimooya kishkayhtaen!

Mischayt kaykway li moond namoo wiiya kishkayhta naandow laanjiineurn. Aykwaanima oohschi ka ki ooshipayha ooma aen liivr. Niiyanaan ni pakoshayimoohk taa miyeuwatamiin ooma Kaykway Ooma Laanjiineurn Itoota.

Li graan bwaa aen travayaan wiichihiwiwak ishi  
wiichihiwayhk aen aarbr miina aen nanimaals didaan li graan bwa.

**Akishchikay avik laanjiineurn  
kaanimayikoohk aen nanimaal da li graan bwaa?**



**Ni akimawak \_\_\_\_\_ aen  
nanimaals.**

Enn baachiss laanjiineurn design enn plass taanday li moond an vii,  
atooshkayhk miina gaa matawayt.

**Circle enn baschiss gaa oshihtow ayishiinoo li moond.**



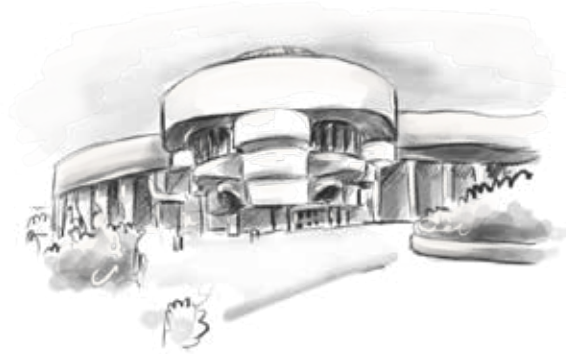
Adobe Pueblo



Enn lozh



Kinwow Mayzoon



Canadian aen meuzil of History



Pchit beut Mayzoon

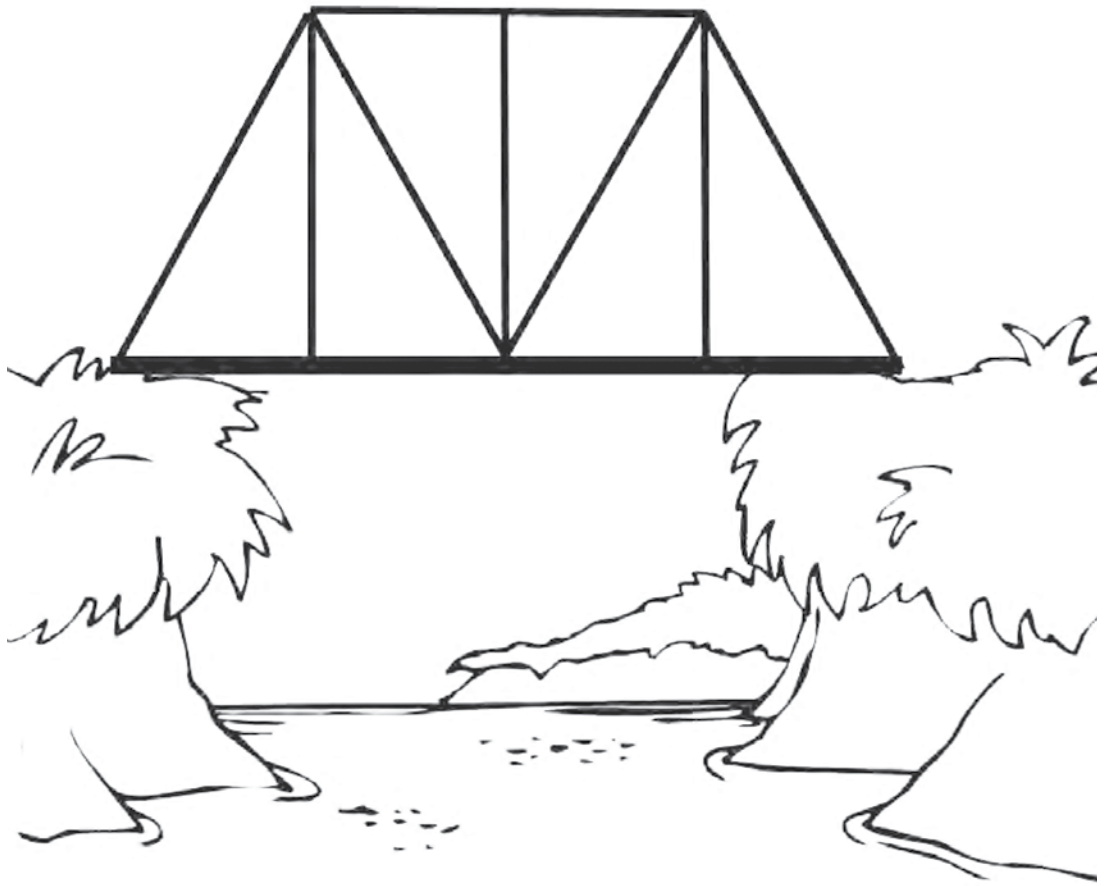


Mayzoon di glaas

Trwaa kwayn maashkowishiiw. Ayow trwaa sides.  
Civil laanjiinyeurn ooshtaawak aen poon minna trwaa  
kwayns. Neuf trwaa kwayns oota ooma aen poon.

gaa kaasshihtaan kaamishkamin kahkiiyow?

**Outline paahpayyek trwaa kwayn ki paahkaan  
lii kooleur.**

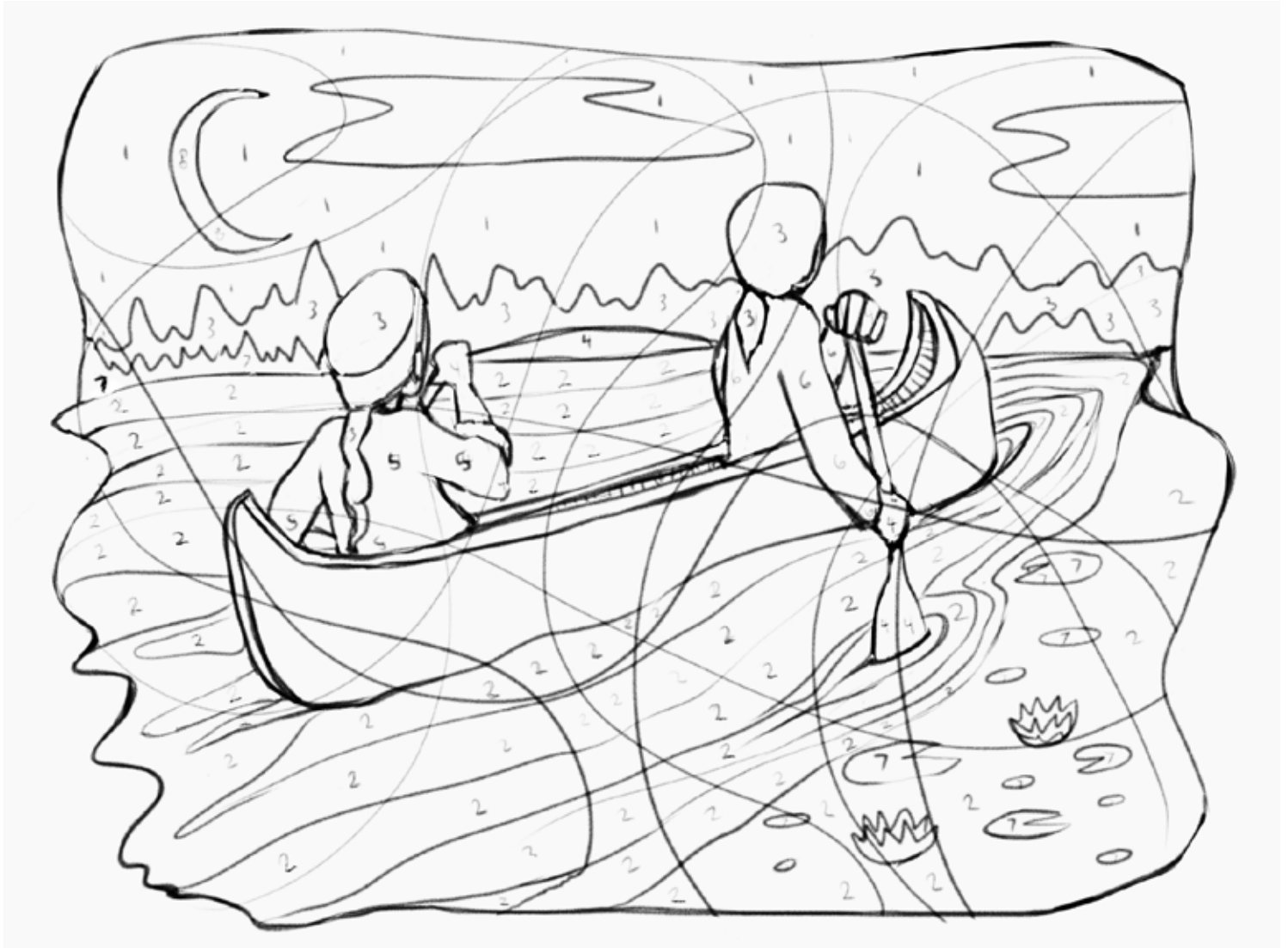




Kiskayhtiin taanishishi Civil laanjiinyeurn kii apachihtow trwaa kwayns ka ooshihtaht aen poons. **Gaa kaasshkihtaan ka ooshihtayin aen poon wi ootway aen atomobil lootr bor la rivyayr?**



Navel laanjiinyeurn ooshtawak aen poon. Aen kanoo is aen batto niikan ooshihtikatiw arra ayishiinoo li moond. **Mooshkinahta aen noombr avik toot lii koeur miina mishka aen kanoo.**



- 1 = vyalet
- 2 = bleu
- 3 = nwayr
- 4 = brun
- 5 = oraanzh
- 6 = roozh
- 7 = ver
- 8 = zhoon

Aen maakanik laanjiinyeurn design paahkaan lii  
masshins, miina aen natamoobil. **Kiishpin kiiya lii en  
maakanik laanjiinyeurn, kaykway ki towa aen  
natamoobil ki ooshihaaw? Ooshitaak oota.**



Construction laanjiinyeurn ooshihtaawak enn  
baachis. Lii kooleur lii zaafayr kii apachihtow gaa  
ooshta enn baachiss.



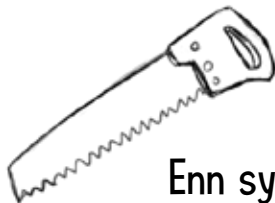
Li guitar



Aen kloo



Aen aarbr



Enn syii



La phone



Kwashkwaypichikan



La vitr li  
zheu

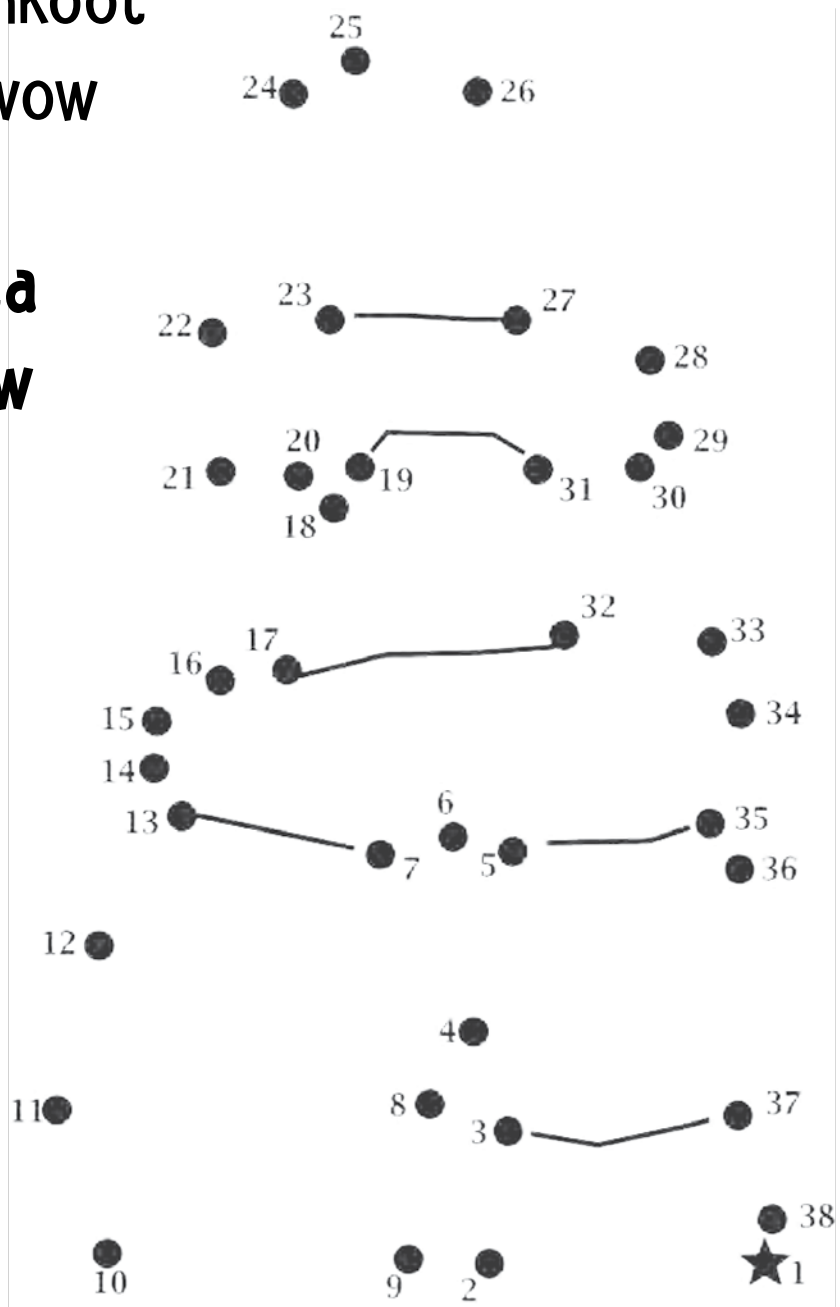


Maartoo



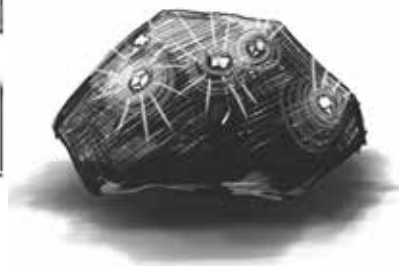
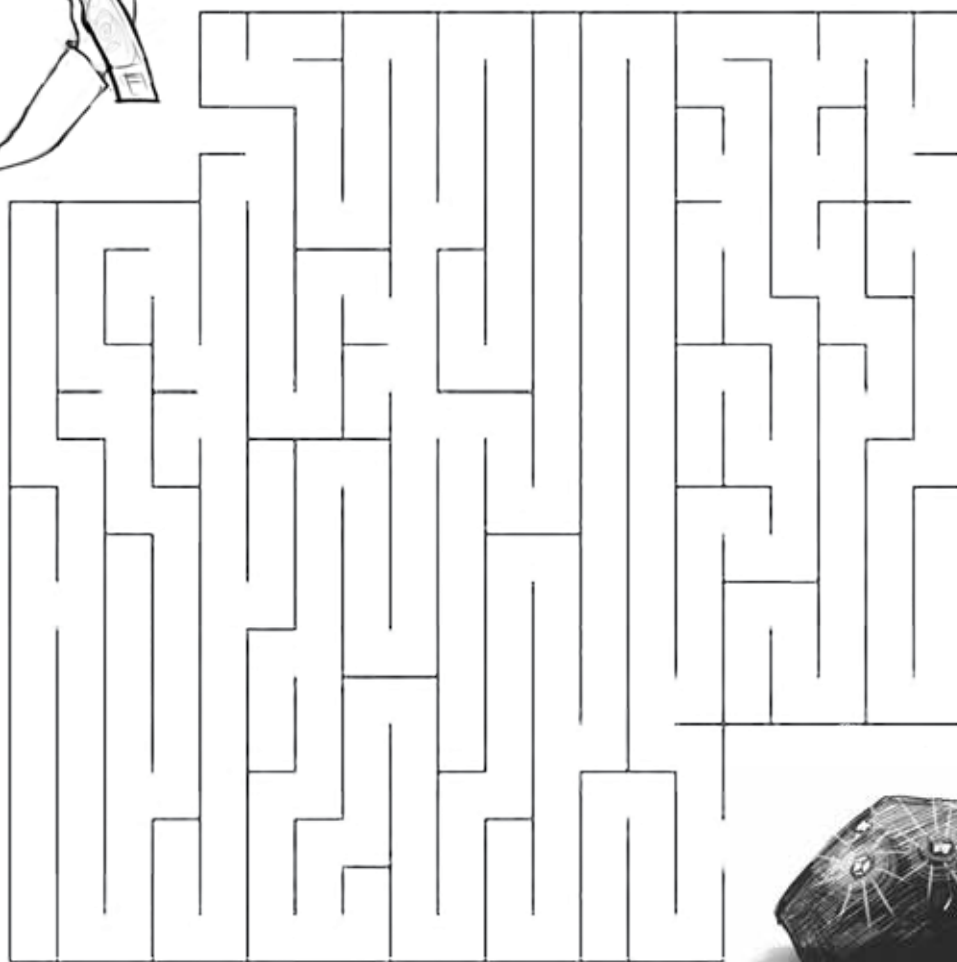
Enn pomm

Aen awachikayhkiw laanjiinyeurn wiichihihiwaak li  
 moond ootway ooshchi enn plass wi enn plass.  
 Aan daan li norr, inukshuk aashkow kii  
 apachihtowaak tapishkoot  
 shmayn li sinii. Wiyawow  
 enn maark taanday  
 tayhkay. **Shakamohta**  
**lii taash kiiwapamow**  
**inukshuk.**

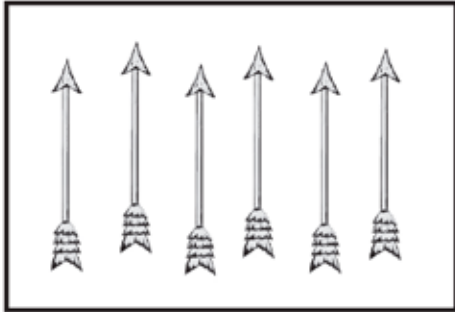




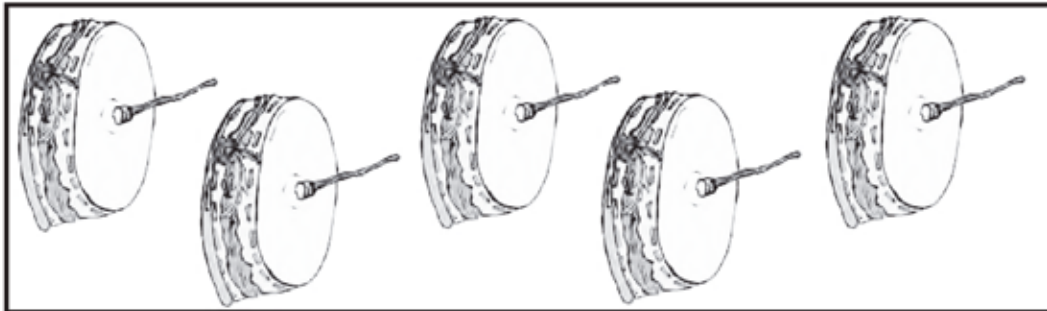
Daan la minn aen atooshkayhk laanjiinyeurn natoonanamwaak li ferr miina la rosh poor laarzhaan. **Wiichihiwayhk daan la minn aen atooshkayhk laanjiinyeurn gaa mishka lii jhiiyama?**



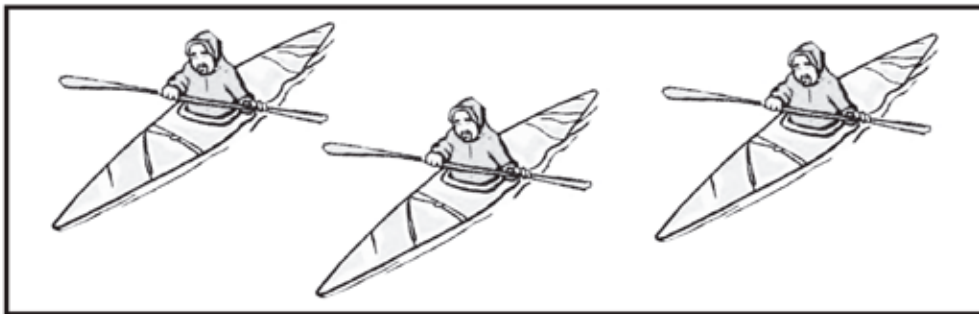
Kahkiiyow oohin kaykway ka kochiwahpatahiwayhk laanjiinyeurn itoota. Ooshitaahk enn kord ooshchi enn bwet wi aen noombr kaykway anima ikwayikohk objects.



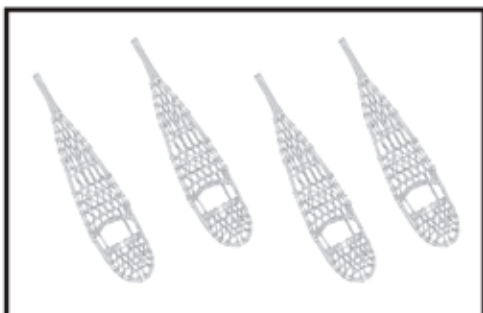
3



6



4



5



Miina l'itii, laanjiinyeurn kii atooshkew disseu ki l'ikol.



Avaan

Kamishkamiin 6 mayshkoohtaashtawiin wiiyawow kii ooshihtow miina circle anima.



Apray

Laanjiineurn kishkayhtum ooshchi aen nanimaal  
miina nature.

Awayna ooshihtow ooma aen ishchikatayk?



Enn lootr    Aen bitorr    Aen kaastor    L'aariyaanl  
Kishkayhtaen kaykway ooma kaasikhkataek?

Tapishkoot aen kaastor, laanjiineurn ooshtaaw ka naakinamun dloo.  
Mishchayt laanjiineurn aen atooshkiiw oota ka naakinamun dloo.



Civil



Geological



Ilektrisitii



Mechanical

Ka naakinamun dloo ooshtaaw Ilektrisitii.

Tanima laanjiineurn wiichihiwiiw avik paahpayyek part?  
Mashinaha wihiwin akootii ka atakooskiit.



Laanjiineurn aen atooshkaywaak didaan too enn vil.  
Kaykway iitowahk laanjiineurn kii aen wiayaayen?  
Aymaashnipayikayhk kiiya piko oota aen portray.



Ooma Edition oohchi Kaykway Ooma Laanjiinyeurn  
Itoota kiiya kiitchi paytawiin arra:

Avek generous wiichihiiwew :

The Joseph S. Stauffer Foundation



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