

# He Mōrehu ki te Ākau

## Seashore Survivor

He kēmu taiao mō te noho ki te ākau tokatoka.

*Mā tēnei kēmu e mārama ai te tangata ki ngā taimahatanga ka pā ki te ika whai kāinga ki tātahi. Whai wāhi mai ana ko te kōwhiringa me te māngari anō. Ko te whāinga ia kia toitū tō ora ki te mutunga rā anō o te kēmu, tē hinga wawe ai!*

### NGĀ MAHI WHAKARITERITE

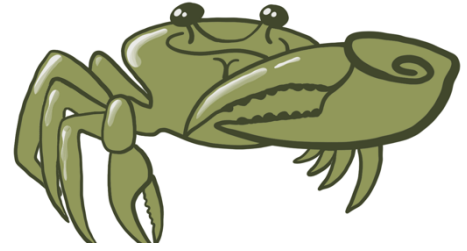
Tāruatia, ka whakawhānuitia anō ai ngā whakaahua pāpaka kia pai ai te tuku ki te papa hei tūranga mō te kaitākaro. Waihangaia he kōpae 'Mōrehu' hei tohu mēnā rānei i ora, i hinga rānei koe. Ka pai noa iho tētahi kōpae waingōhia, pēnei i te kapa, i te wāhi kāri, i te taupoki pātara rānei kua mahia kia whero tētahi taha, kia kākāriki tērā atu. Ka pai anō tētahi kōpae āhua kōunga ake e mea ana, "Māringanui kua ora koe." ki tētahi taha, me "Ka aroha, kua hinga koe." ki tērā atu. Mēnā e tākaro ana tētahi kāhui nui, ka pai mēnā ka āhua nui tonu ngā kōpae (kia 12 pea) e kitea ai te otinga ake mō ētahi kaitākaro i te wā kotahi.

### TE TĀKARO I TE KĒMU

Whakamāramahia atu ki ngā ākonga, ko rātou hei pāpaka ki tātahi. He waewae ō te pāpaka, ka taea hoki tana nekeneke haere. Ka taea te whai oranga ki rō wai, ki waho atu anō mō te wā roa, heoi anō rā, arā tonu ngā uauatanga i te whai kia ora tonu. Hei pāpaka, he iti noa ngā mahi ka taea e rātou, heoi, arā he whakaaro i ngā whakaahua pāpaka kua kōpakina ki te kirirunga kirihou, hei tauira: Me oma, Me moe, Me huna ki te toka, Me kimi he āria, Me whawhai.

Titarihia ngā whakaahua pāpaka ki te papa ki tētahi takiwā e māmā ai te rangona o te reo kōrero.

Tikina ake te kāri tuatahi, ka pānui ai i te horopaki ki te kāhui ākonga, hei tauira, he kāhui karoro ka tau mai.



An environmental game about living on the rocky shore

*This game helps people to understand the stresses on animals living on the beach. There is choice involved and a certain amount of luck too. The aim of the game is to survive through to the end without succumbing to a bad end!*

### PREPARATION

Photocopy and enlarge the crab pictures so they can be placed on the ground and stood on. Make up a 'Survivor' disk that indicates if you survived or perished. A simple disk, coin, piece of card or bottle top coloured red on one side and green on the other is OK. A classier disk with "Lucky you survived." and "Sorry you didn't make it." on the other is good too. If playing with a big group it helps to have several disks (say 12) so the fate of more than one player can be found out. Print out the hazard cards.

### PLAYING THE GAME

Explain to the class that they are going to be crabs on the beach. Crabs have legs and can move. They can survive both in water and out of it for quite long periods of time, but surviving can be difficult all the same. As a crab they are a little limited in what they can do but some suggestions are on the laminated crab pictures (Me oma (Run), Me moe (Sleep), Me huna ki te toka (Hide under a rock), Me kimi he āria (Find a tide pool), Me whawhai (Fight), etc.)

Distribute the crab pictures on the ground within a comfortable talking distance.

Take the first hazard card and read out the scenario to the group, for example, a flock of seagulls arrive.

Ināianeī, me whakataū e ngā tamariki ka aha rātou. Hei tauira, Me oma, Me huna, Me whawhai. Tukuna kia wānanga tahitia e rātou ngā kōwhiringa, ka whakaū ai i te whakataū.

Ināianeī, me pānui atu e koe ngā hua o tā rātou i whakataū ai. Mēnā i pai te kōwhiringa, kua ora tonu rātou. Mēnā i hapa, kua hinga kē. EHARA I TE MEA kua puta rātou i te kēmu i konei, heoi, me mahara ake ki te nui o ngā wā kua hinga rātou. Mō te hunga kāhore e ora mārika i tā rātou i kōwhiri ai (arā, he 50% te tūponotanga ka ora tonu rātou) me whiu e te ākongā te kōpae 'Mōrehu'. Ka tau ana ki te papa, ko te taha e anga whakarunga ana ka whakataū i te hua ki a ia.

Ko te tangata, ko ngā tāngata rānei he iti rawa ngā 'hinganga' ka toa hei mōrehu!

Tāruatia, ka whakawhānuitia anō ai ngā whakaahua pāpaka kia pai ai te whiua atu ki te papa hei tūranga mō te kaitākaro! (Ka pai hoki kia kōpakina ki te kirirunga kirihou.)

The children now must decide what they are going to do. For example, Run, Hide, Fight etc. Give them time to discuss the options amongst themselves and then commit to a choice.

Now read out the corresponding consequences of their choice. If they have chosen a good option they survive. If they have chosen a bad option then they have failed to survive, however they are NOT out of the game but must remember how many times they have not survived. For those whose choice does not guarantee survival (i.e., 50% chance of survival) they must toss the 'Survivor' disk. The side that lands up determines their outcome.

The person(s) with the least 'deaths' is the survivor!

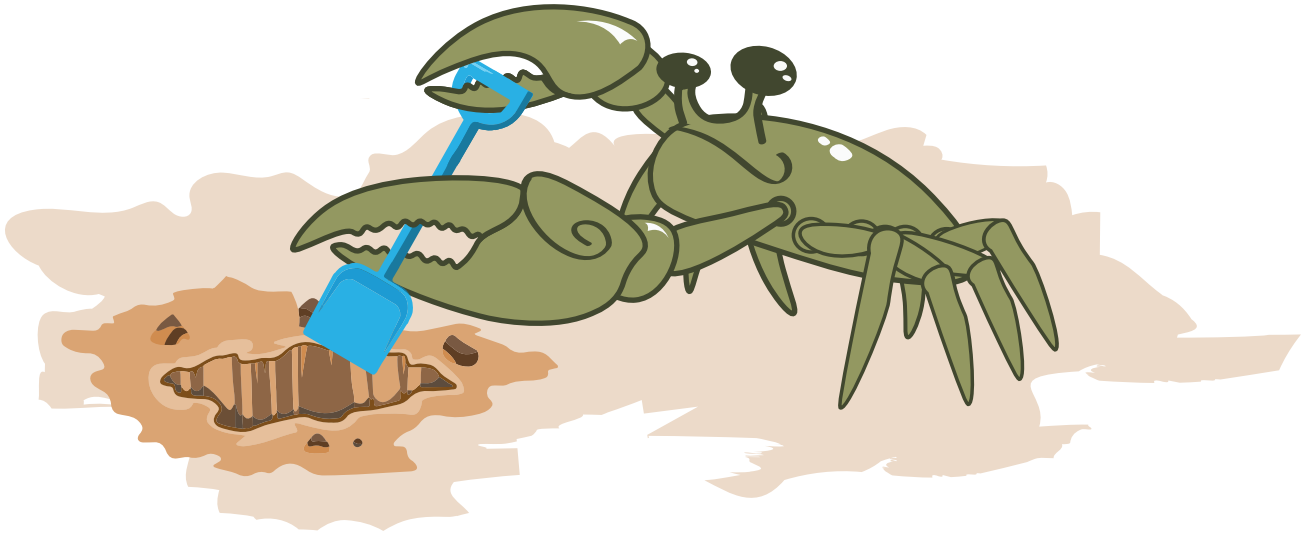
Photocopy and enlarge the crab pictures so they can be thrown on the ground and stood on! (You can laminate them as well.)



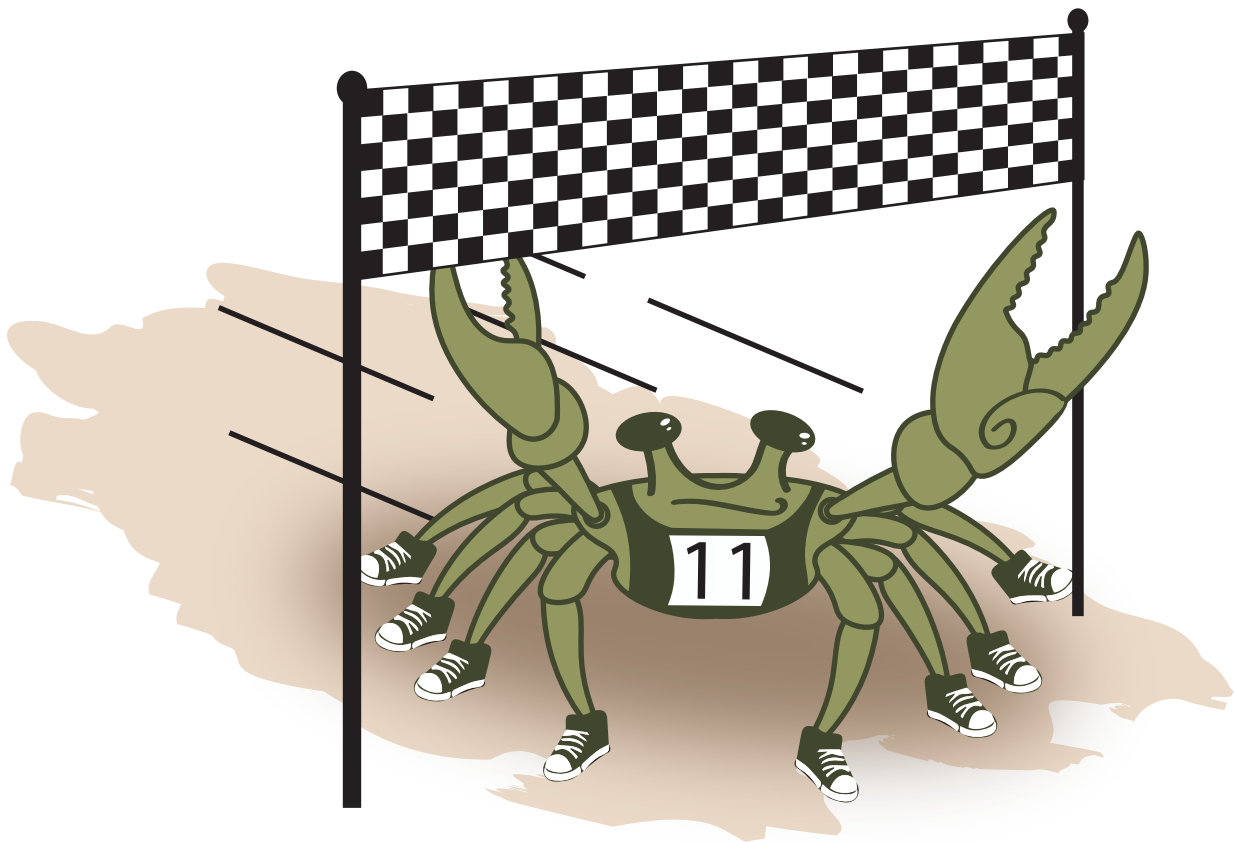
**ME KAI**  
**EAT**



**ME MOE**  
**GO TO SLEEP**



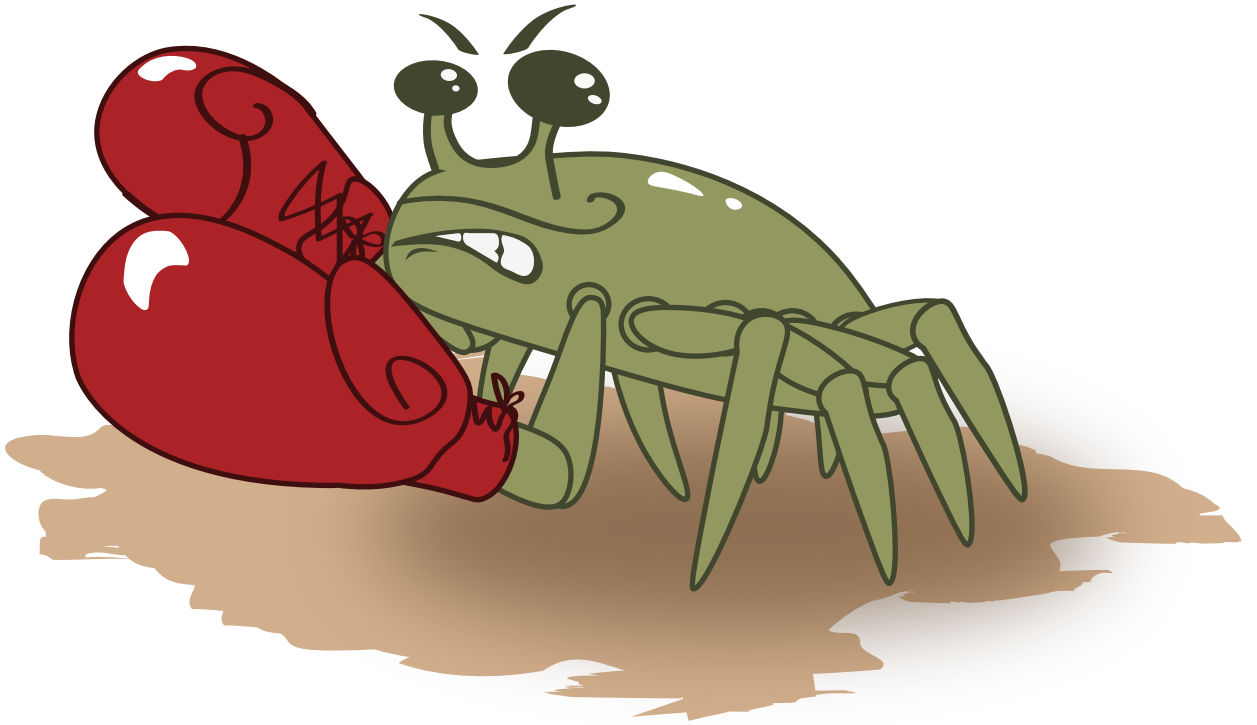
**KARIKARI I TE ONE**  
**DIG INTO THE SUBSTRATE**



# ME OMA RUN



**ME KIMI HE ĀRIA**  
**FIND A TIDE POOL**



**ME WHAWHAI  
FIGHT**





**ME HUNA KI TE TOKA**  
**HIDE UNDER A ROCK**



**ME RUKU KI TE MOANA**  
**JUMP INTO THE OCEAN**

## NGĀ ŌREAREATANGA

### I. TE UA TĀTĀ

Ō kōwhiringa:

Mēnā koe i whakatau ake, **Me ruku ki te moana**, kua ora koe i te ua, heoi, kī pai ana ngā wai pāpaku i te kaipatu i a koe, pēnei i te pākirikiri. Whāia he kōwhiringa anō ināia tonu nei, kei kainga koe!

Mēnā koe i whakatau ake, **Me kimi he āria**, ka raru hoki pea koe, inā hoki, ka waimehatia pea te tote i te āria, me te aha, ka pupuhi koe. Whiua tētahi kōpae Mōrehu kia kite ai mēnā rānei koe ka ora.

Ehara hoki i te mea ka ora mārīka koe ki te kōwhirihia te ara **Karikari i te one**. Whiua tētahi kōpae Mōrehu.

Ko ngā kōwhiringa pai pea o te katoa ko, **Me huna ki te toka**, ko **Me moe** anō. Me mātua whai koe kia tiakina ngā wai o tō tinana.

Ki te kōwhiringia he ara kē atu i ēnei - whiua te kōpae!

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## HAZARD

### I. HEAVY RAIN

If you chose:

**Dive into the Sea** - you have solved the rain effects but the shallows are full of predators like spotties. Make another choice now or you'll get eaten!

**Tide Pool** - you may be in trouble, because the rain may dilute the salt in the pool causing you to swell up. Toss a Survivor disk to see if you survive.

**Digging in the Substrate** - is not guaranteed. Toss a Survivor disk.

**Hiding under a Rock** and **Going to Sleep** - are probably the best options. You must try and conserve body water.

For all other choices – toss the disk!

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## NGĀ ŌREAREATANGA

### 2. KA PAE MAI HE KAI

*E whai hua ai tō kōwhiri i te ara, 'Me kai', me pā rawa tētahi wāhi o tō tinana ki te kāri!*

Ō kōwhiringa:

Mēnā koe i whakatau ake, **Me kai**, ka pai! Ko te whakataetae i waenga i tētahi me tētahi, koia ko tētahi o ngā momo kakari ngoto katoa! Me uua ka whai hua nui te toa i te whakataetae, heoi, kei mate pea tērā ka wairuatoa! Ehara i te mea me tae tuatahi atu koe, engari kia kua e noho ko koe te whakamutunga!

Mēnā koe i whakatau ake, **Me whawhai**, tērā pea koe ka whai hua ki te kore ētahi pāpaka kē atu e toa. Whiua tētahi kōpae Mōrehu kia kite ai mēnā rānei koe ka ora.

He ara pai ngā kōwhiringa, **Me huna ki te toka**, **Me moe** anō, inā hoki, ka tiakina tō ngao. Kia mahara ake, ehara i te mea ka nui te ngao ka pau i te pāpaka i te korenga o ōna toto mahana, nā reira ehara te kai i te take nui.

Ki te kōwhiringia he ara kē atu i ēnei - whiua te kōpae!

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## HAZARD

### 2. SOME FOOD WASHES IN

*NOTE: For 'Eat' to count at least some part of your body must be touching the card!*

If you chose:

**Eat** - well done! Competition between individuals is often the most intense type of competition there is! Competition doesn't usually reward the winner, but may kill the loser! You don't need to be first, but don't be last!

**Fight** - it may work if the other crabs don't win. Toss a Survivor disk to see if you survive.

**Hiding under a Rock** and **Going to Sleep** - are good options, because you will conserve energy. Remember crabs don't use much energy not being warm-blooded, so food need not be a big issue.

For all other choices – toss the disk!

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### 3. HE KĀHUI KARORO KA TAU MAI

Ō kōwhiringa:

Mēnā koe i whakatau ake, **Me oma**, kua hinga koe! He kanohi hōmiromiro ō te karoro, ā, ka māmā noa te kite atu i ō korikoringa.

Ka kore koe e ora ki te whakatau ake, **Me whawhai** - ka kore rawa e hinga i a koe te karoro! Kua hinga koe.

Mēnā koe i whakatau ake, **Me kimi he āria**, ka raru pea koe i tō te karoro āhei ki te kaukau. Whiua tētahi kōpae Mōrehu kia kite ai mēnā rānei koe ka ora.

Ko te **Karikari i te one**, ko te whakatau ake rānei, **Me huna ki te toka** ngā ara pai pea o te katoa.

Ki te kōwhiringia he ara kē atu i ēnei - whiua te kōpae!

### 3. A FLOCK OF SEAGULLS ARRIVE

If you chose:

**Run** - you are dead! Seagulls have good eyesight and will pick up movement easily.

**Fighting** - is no good you will never beat a gull! You are dead.

**Tide Pool** - you may be in trouble, because seagulls can swim. Toss a Survivor disk to see if you survive.

**Digging in the Substrate** and **Hiding under a Rock** - are probably the best options.

For all other choices – toss the disk!

## 4. HE KĀHUI TAMARIKI KURA KA TAE MAI KI TĀTAHI

Ō kōwhiringa:

Mēnā koe i whakatau ake, **Me oma**, kua hinga koe! He kanohi hōmiromiro ō te tamariki, ā, ka māmā noa te kite atu i ō korikoringa.

Ka kore koe e ora ki te whakatau ake, **Me whawhai** - ka kore rawa e hinga i a koe te tamaiti! Kua hinga koe.

Mēnā koe i whakatau ake, **Me kimi he āria**, ka raru pea koe i tō te tamariki pai ki te āria. Whiua tētahi kōpae Mōrehu kia kite ai mēnā rānei koe ka ora.

Ko te **Karikari i te one**, ko te whakatau ake rānei, **Me huna ki te toka** ngā ara pai pea o te katoa.

Ki te kōwhiringia he ara kē atu i ēnei - whiua te kōpae! Ko te manako ia ka kore koe e hīkina ake e rātou - kei taka koe. Ko te manako ia ka kore rātou e pīrori toka - kei korotēngia koe. Ko te manako ia ka kore koe e puritia hei mōkai!

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## 4. SCHOOL KIDS ARRIVE ON THE BEACH

If you chose:

**Run** - you are dead! Kids have good eyesight and will see movement easily.

**Fighting** - is no good you will never beat a human child! You are dead.

**Tide Pool** - you may be in trouble, because children like tide pools. Toss a Survivor disk to see if you survive.

**Digging in the Substrate** and **Hiding under a Rock** -are probably the best options.

For all other choices – toss the disk!

Hope they don't try picking you up or you may get dropped. Hope they don't roll rocks around, because that will squash you. Hope they don't try and keep you as a pet!

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## 5. KA KAPI TE ONE I TE PARU I TĒTAHI HORONGA WHENUA TĀTATA

Ō kōwhiringa:

Mēnā koe i whakatau ake, **Me ruku ki te moana**, kua ora koe i te parū nui, ā, ka kauparehia atu ngā kaipatu i a koe e te parū. He kōwhiringa pai!

Mēnā koe i whakatau ake, **Me kimi he āria**, ka pai pea koe ki te kitea tētahi. Hāunga ngā mōreareatanga, ka ora tonu koe i tēnei wā.

Kāhore e pai te **Karikari i te one**, te whakatau ake rānei, **Me huna ki te toka**; ka purutiti o piha i te parū. Kāhore koe i ora!

Ki te kōwhiringia he ara kē atu i ēnei - whiua te kōpae!

Ka pēhea koe ki te haria he pūrere ki tātahi ki te whakawātea atu i te parū?

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## 5. A NEARBY LANDSLIP COVERS THE BEACH WITH MUD

If you chose:

**Dive into the Sea** - you have solved the mud problem, and the predators will be put off by the mud. Good choice!

**Tide Pool** - if you can find a tide pool it may be ok. It's a risk but this time you survive.

**Digging in the Substrate** or **Hiding under a Rock** - is no good; the mud will clog your gills. You don't survive!

For all other choices – toss the disk!

How would you cope if machinery was brought onto the beach to clear the mud?

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## 6. KA PĀ TE ĀWHĀ ME TE NGARU NUI

Ō kōwhiringa:

Ehara te whakatau ake, **Me huna ki te toka**, i te kōwhiringa pai! Ka pīrori haere ngā toka me ngā ngaru, ka korotēngia koe. Kāhore koe i ora!

Mēnā koe i whakatau ake, **Me kimi he āria**, ka raru pea koe, inā hoki, ka papaki mārika pea ngā ngaru, ka whiua ai koe ki uta. Whiua tētahi kōpae Mōrehu kia kite ai mēnā rānei koe ka ora.

Ko te whakatau ake, **Me ruku ki te moana**, koia pea te kōwhiringa pai katoa, inā hoki, ka wāhi tau ake ngā wai o reira.

Ki te kōwhiringia he ara kē atu i ēnei - whiua te kōpae!

## 6. STORMY WEATHER WITH BIG WAVES

If you chose:

**Hiding under a Rock** - is a bad move! The rocks will roll around with the waves and squash you. You don't survive!

**Tide Pool** - you may be in trouble, because the waves may explode so hard that you are flung up the shore. Toss a Survivor disk to see if you survive.

**Dive into the Sea** - is probably the best option as there will be a little less water movement here.

For all other choices – toss the disk!



## 7. TE RĀ TĪKĀKĀ ME TE HAU

Ō kōwhiringa:

Mēnā koe i whakatau ake, **Me ruku ki te moana**, e kore koe e hinga i te pākākā, heoi, nā te mahana o te wai i whakapoapoatia ai te whai ki ngā wai pāpaku. Whāia he kōwhiringa anō ināia tonu nei, kei kainga koe!

Mēnā koe i whakatau ake, **Me kimi he āria**, ka raru pea koe, inā hoki, mā te rā pea e kukū ai te tote ki te āria, nā konei ka mimiti ngā wai o tō tinana. Whiua tētahi kōpae Mōrehu kia kite ai mēnā rānei koe ka ora.

Ko ngā kōwhiringa pai pea o te katoa ko te **Karikari i te one**, ko te **Huna ki te toka**, ko te **Moe** anō hoki. Me mātua whai koe kia tiakina ngā wai o tō tinana.

Ki te kōwhiringia he ara kē atu i ēnei - whiua te kōpae!

## 7. HOT SUNSHINE AND WIND

If you chose:

**Dive into the Sea** - you have solved the drying effects, but the warm water has attracted stingrays into the shallows. Make another choice now or you'll get eaten!

**Tide Pool** - you may be in trouble, because the sun may concentrate the salt in the pool causing you to lose body water. Toss a Survivor disk to see if you survive.

**Digging in the Substrate, Hiding under a Rock** and **Going to Sleep** - are probably the best options. You must try to conserve body water.

For all other choices – toss the disk!

## 8. E TĀMIA ANA A TĀTAHI E TE PĀTANGAROA RĀWAHO

Ō kōwhiringa:

Ki te tau mai te pātangaroa nō te raki o Te Moana Nui a Kiwa ki Aotearoa nei, kāhore kau ōna kaipatu māori. He horo rawa tana whakaputa hua - ka tae ake ki tōna 20 miriona hua i te tau. Ahakoa te aha, ka kainga e ia!

Kua raru nui koe! Kāhore hoki he āhuru mōwai - e kore, e kore, ka kainga koe! Ahakoa tō kōwhiringa, kia rua rawa ō whiu i te kōpae Mōrehu e ora tonu ai koe!

Turou Hawaiki!

Ki te kitea e koe tētahi pātangaroa hanga rerekē nei, ka whai hua pea tō whāki ake.

## 8. FOREIGN SEASTARS ARE TAKING OVER THE BEACH

The North Pacific seastar would have no natural predators in New Zealand if they were to get here. They breed very fast, up to 20 million eggs a year. They eat anything!

You are in trouble! No place is safe, you will probably get eaten! Whatever your choice – you must toss the Survivor disk twice to survive!

Good Luck!

If you see a strange seastar it could be worth reporting it.