



吉娃斯愛科學繪本

第04集  
水芋田宇宙

阿美族語  
(秀姑巒阿美語)

翻譯 / 配音  
Kolas Foting  
(朱清義)

# 吉娃斯愛科學

第04集 水芋田宇宙

## 阿美族語 (秀姑巒阿美語)



族語全文朗讀



華語全文朗讀



英語全文朗讀



吉娃斯

Kolas

飛弁

Mayaw

乃奈

Namoh

里昂

Ci Lisaw



O serayan no tali^ a omah



水芋田宇宙



The Universe of the Taro Paddy

慢

原







Ini to ko faelohay a tay-kung-cang.



新的太空艙來了。



The new space capsule has arrived.

慢

原







Misarocod ci Mayaw a mi-on-ting to tay-kung-cang i calay, mihalaka^ a patatawos i dohaw toya tay-kung-cang ato tay-kung-can.



飛卉認真地遠端操作著新的太空艙，讓太空艙與太空站進行「太空會合」。



Behuy works hard to operate the remote docking of the new space capsule, so that the space capsule performs a “space rendezvous” with the space station.

慢

原









Malaheci^ to a matatawos!



會合成功!



The rendezvous is a success!







Ca:roh sa ci Mayaw a mangalay paka'araw toya faelohay a tay-kung-cang.



飛奔等不及看看新的太空艙的樣貌。



Behuy can' t wait to see what the new space capsule looks like.







Oya faelohay a tay-kung-cang haw i, o sakidohaw a riwang, manga'ay a malo pipalomaan to dateng, manga'a:y a malo pikingkiwan to nikalomahad no pinalengaw itira i dohaw.



新的太空艙是一間太空溫室，可以種植蔬菜，也可以進行植物在太空中生長的研究。



The new space capsule is a space greenhouse where they can grow vegetables and conduct research on plant growth in space.

慢

原







O faeket no maamaan i tay-kung-can ato i 'oriraw haw i, caay ka lecad, pakayni toya pinangan no “maw-si-syen-syang” a pananowang ko mikingkiway to nanom i mimingay a hoso^, ta caay ka liwasak.



太空站裡的重力與地球上不同，所以專家們利用「毛細現象」讓水分沿毛細管方向移動，不會亂跑。

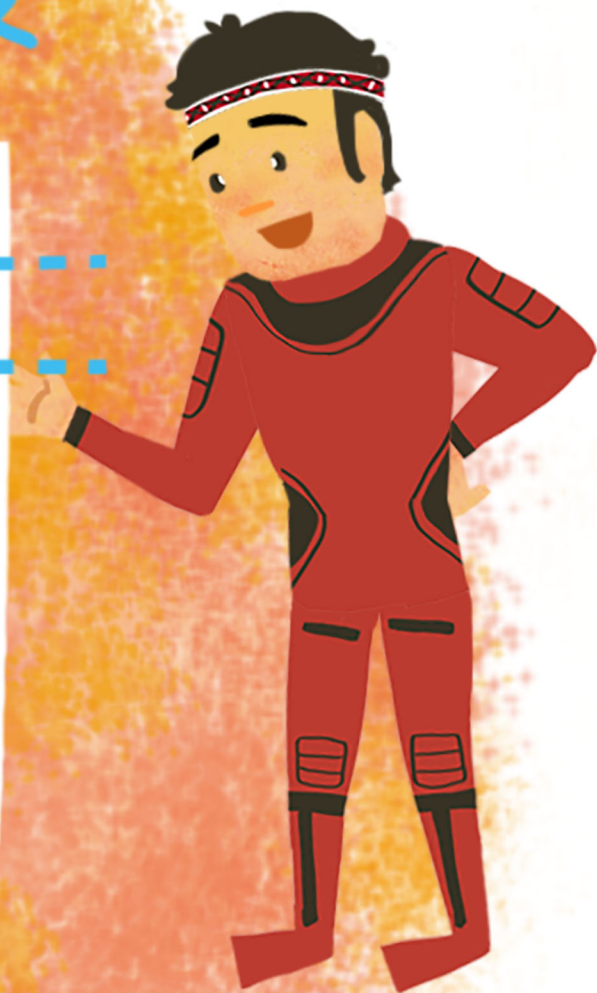
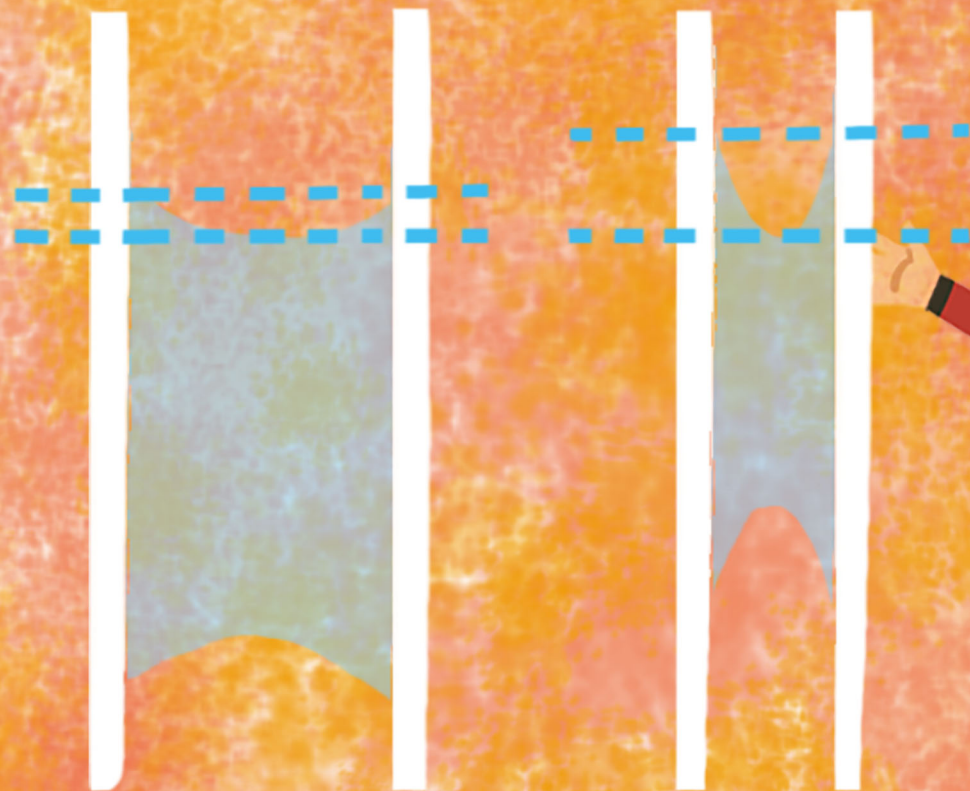


Gravity within the space station is different from that on earth, so scientists make use of the “capillary phenomenon” so that moisture moves along the direction of capillaries and doesn’ t fly everywhere.





# 毛細現象





Ira ko mikafitay 'icel no rafor no nanom ato rafor no kalomaamaan. Ano kitata'akan no mihedotay a 'icel ko masasolotay a 'icel no rafor i papotal i, milakowit to mihedotay a 'icel no 'oriraw ko nanom a mofafaw, o “maw-si-syen-syang” han konini a pinangan.



水分子和物體分子間具有附著力，如果這個吸附力大於分子間內聚力所產生表面張力，可以讓水克服地心引力而往上方移動，這種現象稱為「毛細現象」。



There is an adhesive force between water molecules and the molecules of objects. If the absorption force is greater than the surface tension generated by the cohesion between molecules, then water can overcome the force of gravity to move upward. This is called the “capillary phenomenon.”

慢

原







Ano pacedo'en i nanom ko ngapir no sasifin i, oya caayay ka pacedo' i nanom i, ma'opi:c to aca^. O sakamatira haw i, iraay ko maw-si-syen-syang.

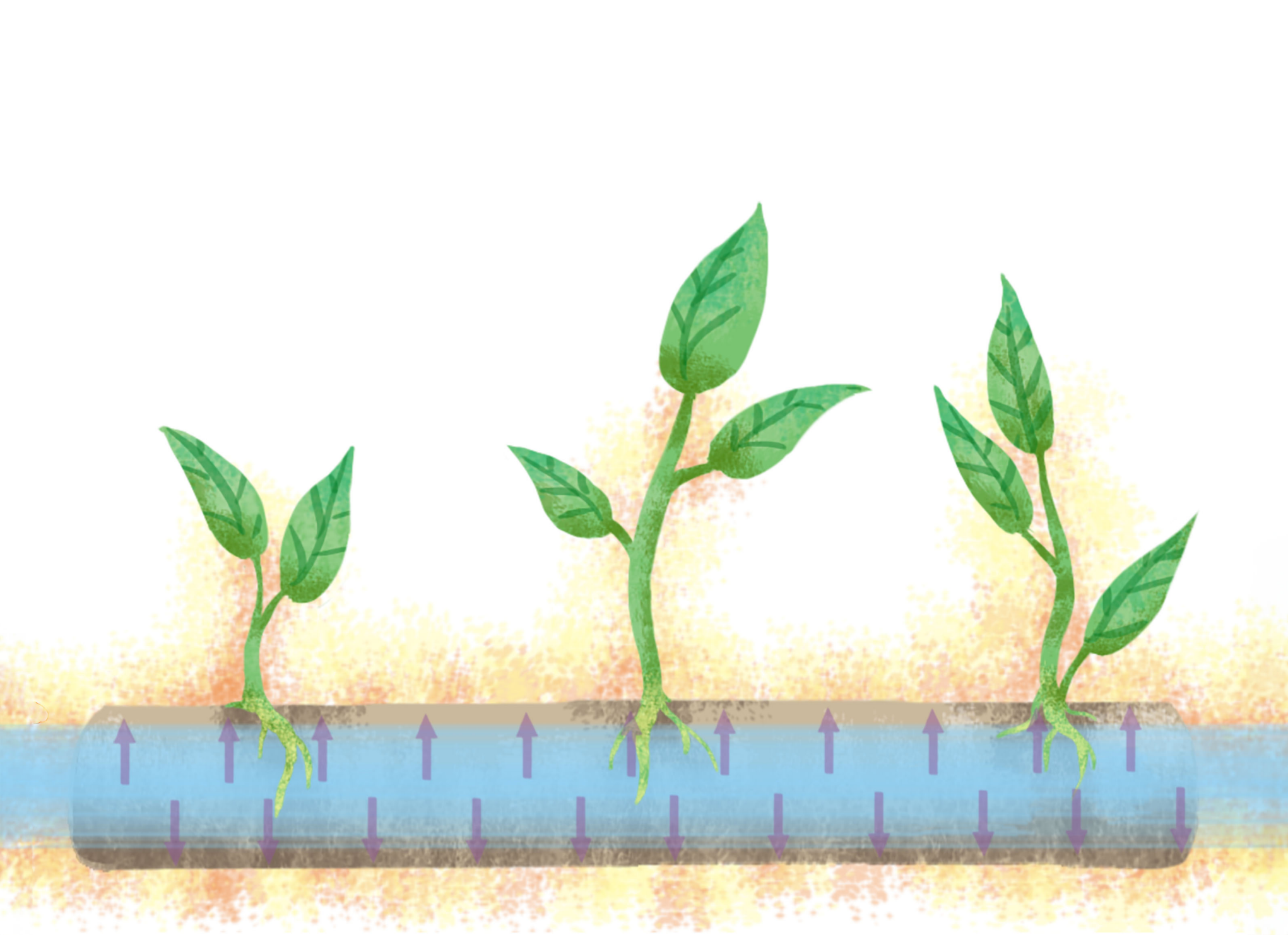


例如把毛巾放一半到水裡，沒有進入水裡的部分也會變濕，就是因為毛細現象。



For example, if we put half of a towel in water, even the part not in the water will get wet. This is because of the capillary phenomenon.







I laloma' noya sakidohaw a riwang, itira i kalaeno^ no pipahecekan to pinalengaw, ira ko mamama:ngay a feso' no hoso^, o pakayraan no nanom a malo sapipananom to lamit no pinalengaw.



太空溫室「植物枕」的水管有無數細微的孔洞，讓水分可以藉由小孔洞滋潤植物的根部。

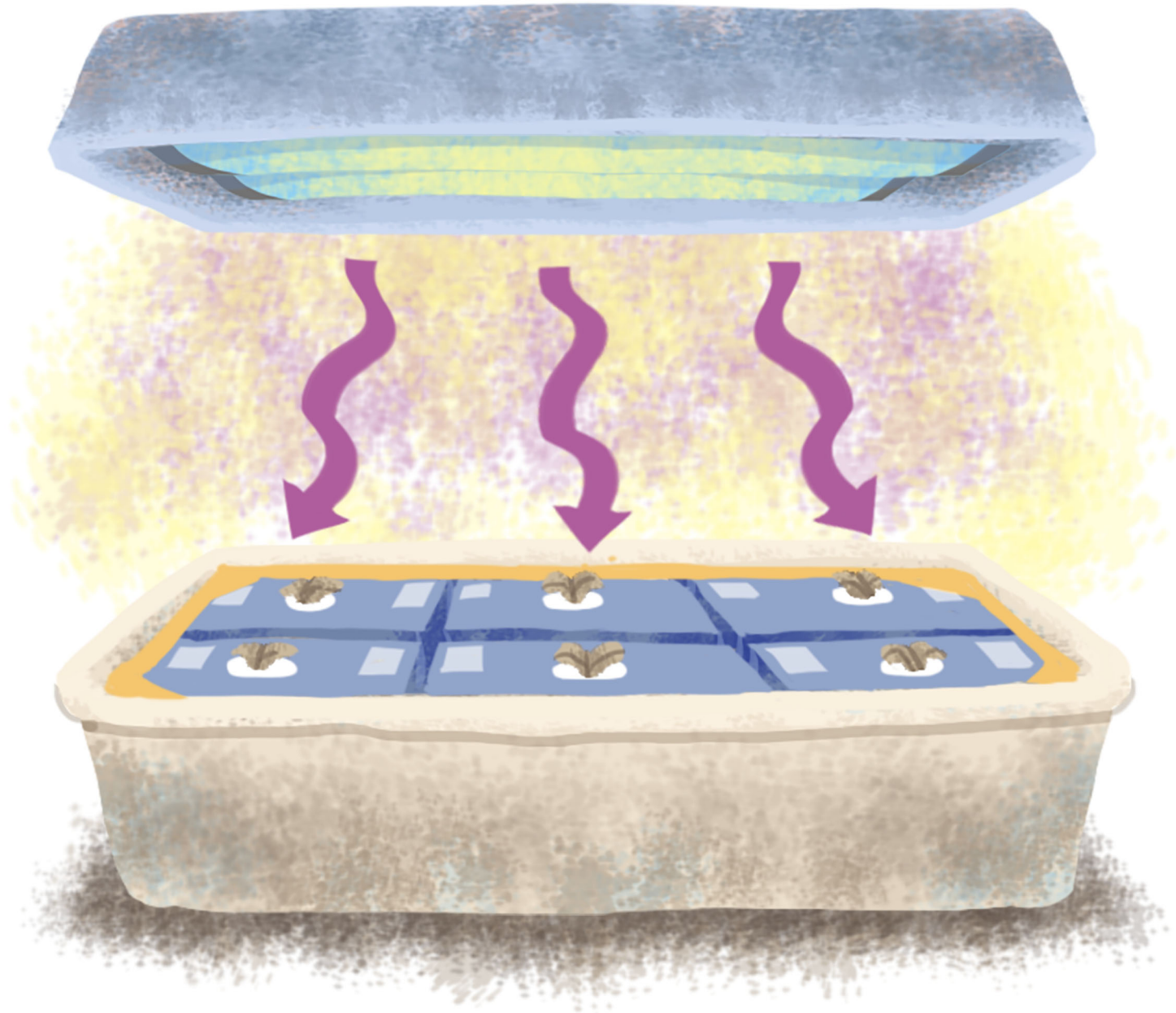


In the space greenhouse the water pipes within “plant pillows” have many tiny holes through which the water can moisten plants’ roots.

慢

原







O roma^ sato, ira ko dawdaw i laloma' no sakidohaw a riwang, o malo sapalahad to pinalengaw a langdaway a likat ato kahengangay a likat.



另外太空溫室也會為植物照射有益的藍光與紅光幫助植物生長。



In addition, the space greenhouse also provides the plants with beneficial blue light and red light to help them grow.

慢

原









Faheka' sa ci Mayaw, hila<sup>m</sup> manga'ay aca<sup>^</sup> a matayal to no maomahay i laloma' no tay-kung-can saan.



飛奔想不到，在太空站裡，竟然還可以當農夫呢！



Behuy never thought that he would become a farmer in the space station!

慢

原







Imatini, matayalay ci Kolas to no maomahay i laloma' noya Ivatas.



這個時候，吉娃斯在 Ivatas 也正在當農夫呢！



At the same time, Giwas is working as a farmer on Ivatas!

慢

原







Keton to sakinanom a tali^, pahecek han ko 'akaway i omah i, cicengo' to a lomengaw.



割下水芋後，把莖插回田裡，就能長出新的水芋。

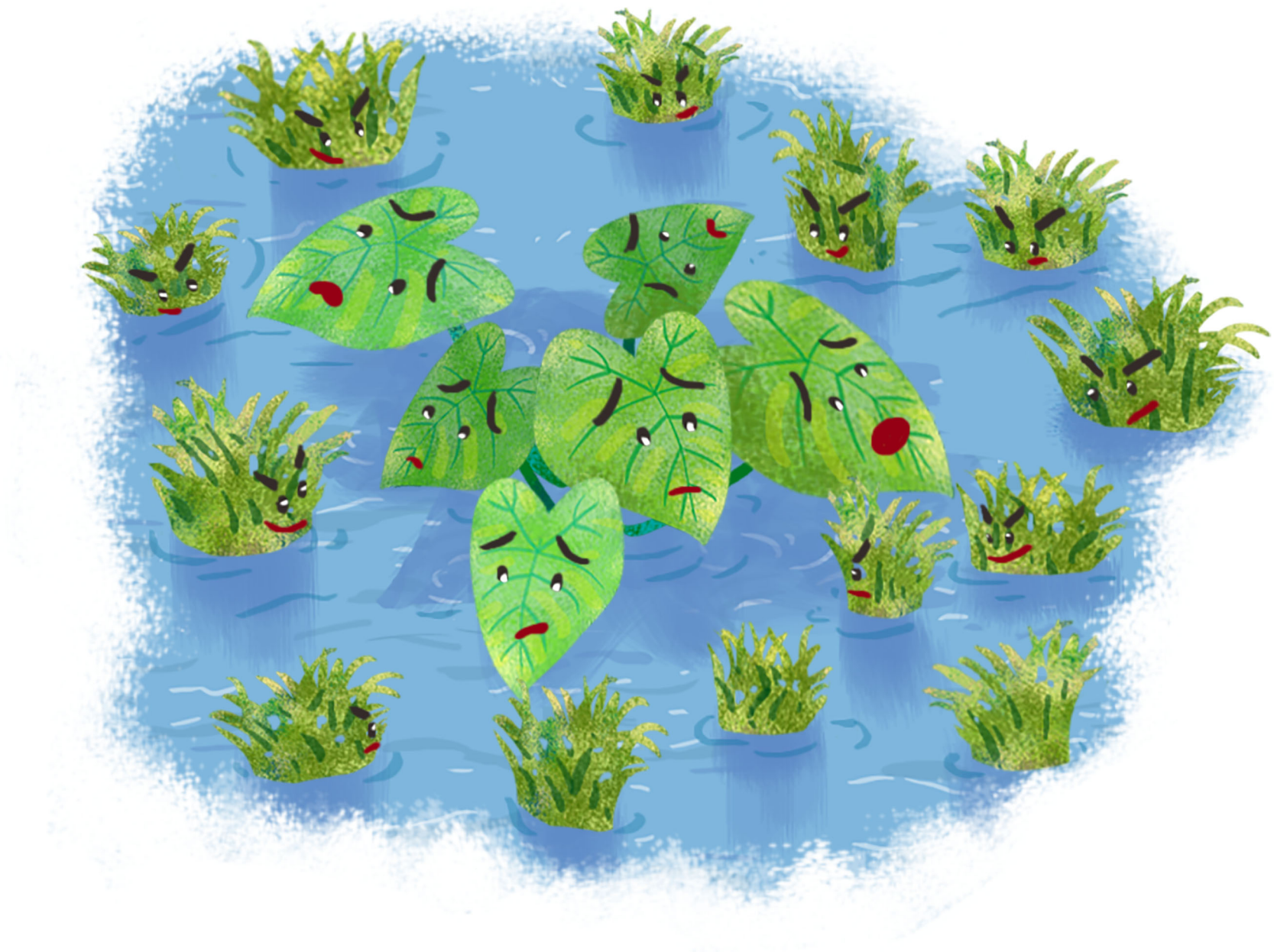


After cutting off the taro, they place the stems back into the paddy so that it will grow a new taro root.

慢

原







Tomatira, kalalok a mipocpoc to semot, ta manga'ay ko nikalomengaw no tali^.



平時也要勤奮去除多餘的雜草，幫助水芋生長。



While the taro grows, they have to diligently weed the paddy to help it grow.

慢

原









Sowal sa ko i Fotoday a tamdaw, matokaay a fafahian i, molalek a maemin ko tali^; malalokay a fafahian i, fangcal ko lengaw no tali^ saan.



達悟族人都說，懶惰的女人芋頭個個飛，勤勞的女人芋頭個個肥。



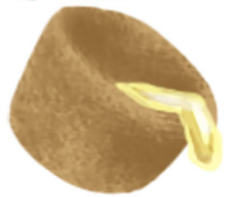
Tao people say, a lazy woman's taro diminishes by the day, but a hardworking woman's taro gets bigger all the way!

慢

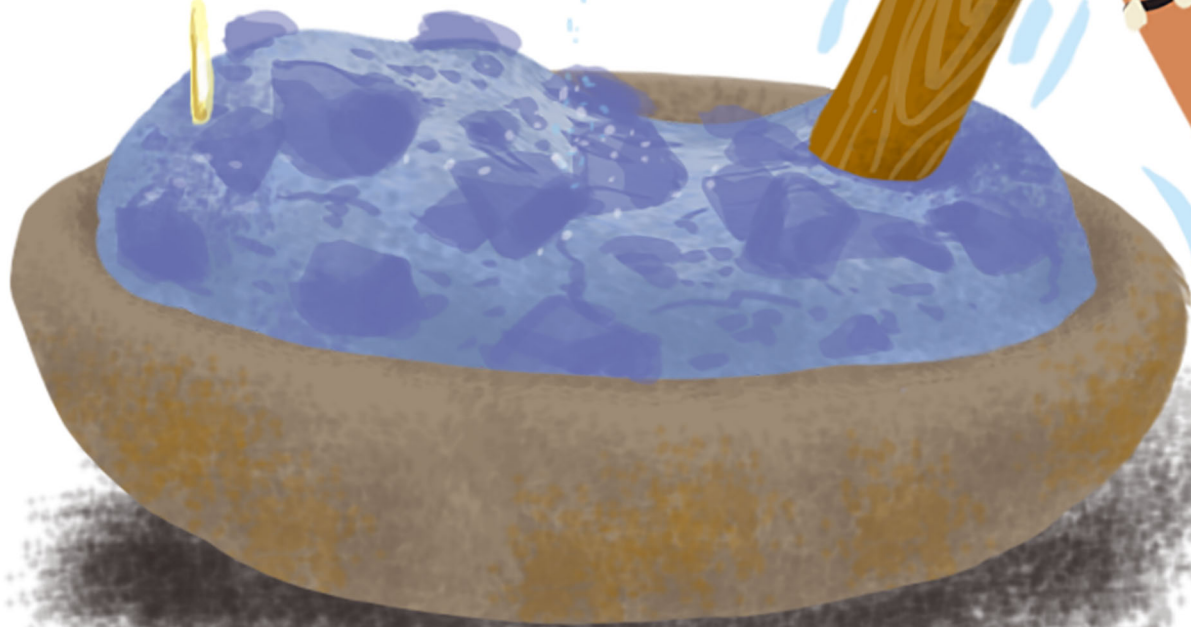
原



油



鹽





Maherek a mirahekad to tali^ i, taliken pala'atod, pacilah palamlam han to simal no ni'id'idan a titi^.



水芋蒸熟後，搗成泥狀，加上烤肉油汁和一點鹽。



After steaming the taro, they pound it into a paste and add some oil from roasted meat and a bit of salt.

慢

原







Wa:tah! Malakaeso'ay a 'emo^ no tali^!



美味的芋頭糕誕生了!



The delicious mashed taro is done!

慢

原







Itiyati:ya yo mangalay ci Kolas a patayra i tay-kung-can toya 'emo^ ato ni'icangan a kakahong i, fahal sa awaay a ma'araw koya fodawan a fakeloh!



就在吉娃斯想要把芋頭糕和飛魚乾帶到太空站時，聖石竟然不見了！



Just as Giwas wanted to bring some mashed taro and dried flying fish back to the space station, the Pinsbkan magic stone disappeared!









Hilam han i, ngitidan no kalang koya fodawan a fakeloh!



原來是一隻陸蟹把聖石夾走了！



It was taken by a terrestrial crab!

慢

原







Malingad to ci Maya^, o saci'icelay a mikalang no i Fotoday a finacadan.



達悟族最強捉陸蟹高手 si Mazngang 要出動了!



The greatest crab catcher of the Tao people, si Mazngang is on the case!

慢

原







Milimek i semosemotan i laloma' no sera^ ko kalang. Kilimen ko picomodan nira a fohang, ta manga'ay a karkaren a pasadak.



陸蟹躲在草叢的沙土裡。找到牠出沒的洞口，才能把牠挖出來。



The terrestrial crab is hiding in the sand among the grass. They have to find the hole it burrows into in order to dig it out.

慢

原







Malepel ko pinapi:na^ a kalang, nika caay koya mingitiday toya fodawan a fakeloh.



一連抓了好幾隻陸蟹，都不是夾走聖石的那一隻。



They catch several crabs, but none of them are the one that took the Pinsbkan.

慢

原









Sarikoray sato, lawop han no 'alomanay a milepel, saka maala^ to koya fodawan a fakeloh.



最後在大家的圍捕下，終於拿回了聖石。



Finally, after everyone helps to surround the crab, they get the Pinsbkan back.

慢

原







Palaliw han ni Kolas koya kalang, o mingitiday toya fodawan a fakeloh.



吉娃斯放走了那隻夾走聖石的陸蟹。



Giwas let the crab that took the Pinsbkan go

慢

原







Nawhani, adihay to ko nilepelan no 'alomanay to kalang.



因為大家捉到的陸蟹已經夠多了。



because they already caught enough crabs.

慢

原







Ci Masa^ sato i, mihakelong i ci Kolasan a tayra i tay-kung-can.



si Masagaz 跟著吉娃斯來到了太空站。



si Masagaz arrives at the space station with Giwas.

慢

原









Lipahak sa ci Mayaw a paka'araw to a:dihayay mapawpaway i tay-kung-cang a kakenen!



飛卉看著滿滿的食物漂浮在太空艙，真是太開心了！



Behuy is so happy to see all the food they brought floating in the space station!







Minengneng ci Masa^ to 'oriraw i papotal no sasingarang i, سوال sa, “O mamala-tay-kung-ren kako ano'ayaw.” saan.



si Masagaz 看著觀景窗外的地球，他說以後也要當一個太空人。

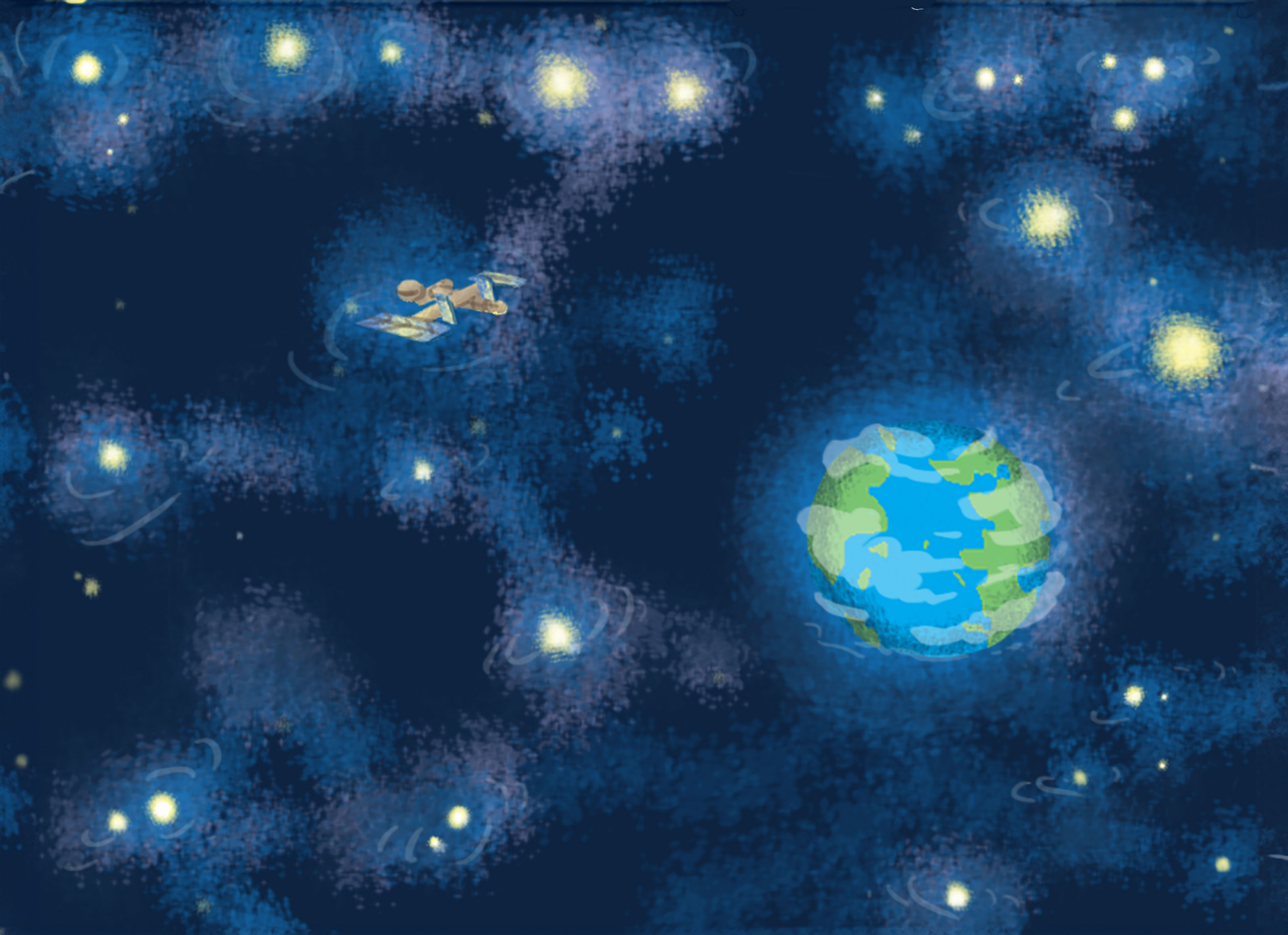


si Masagaz looks at the view of the earth from the window and says he wants to be an astronaut one day too,

慢

原







Nawhani, o riyar no 'oriraw ko sofal.



因為宇宙就是地球的海洋。



because the universe is like the earth' s ocean.

慢

原







O wawa^ no i riyaray a finacadan ci Masa^, o mamidakaw cingra to nisoλεκan a tamina^ a talasofal no kakarayan.



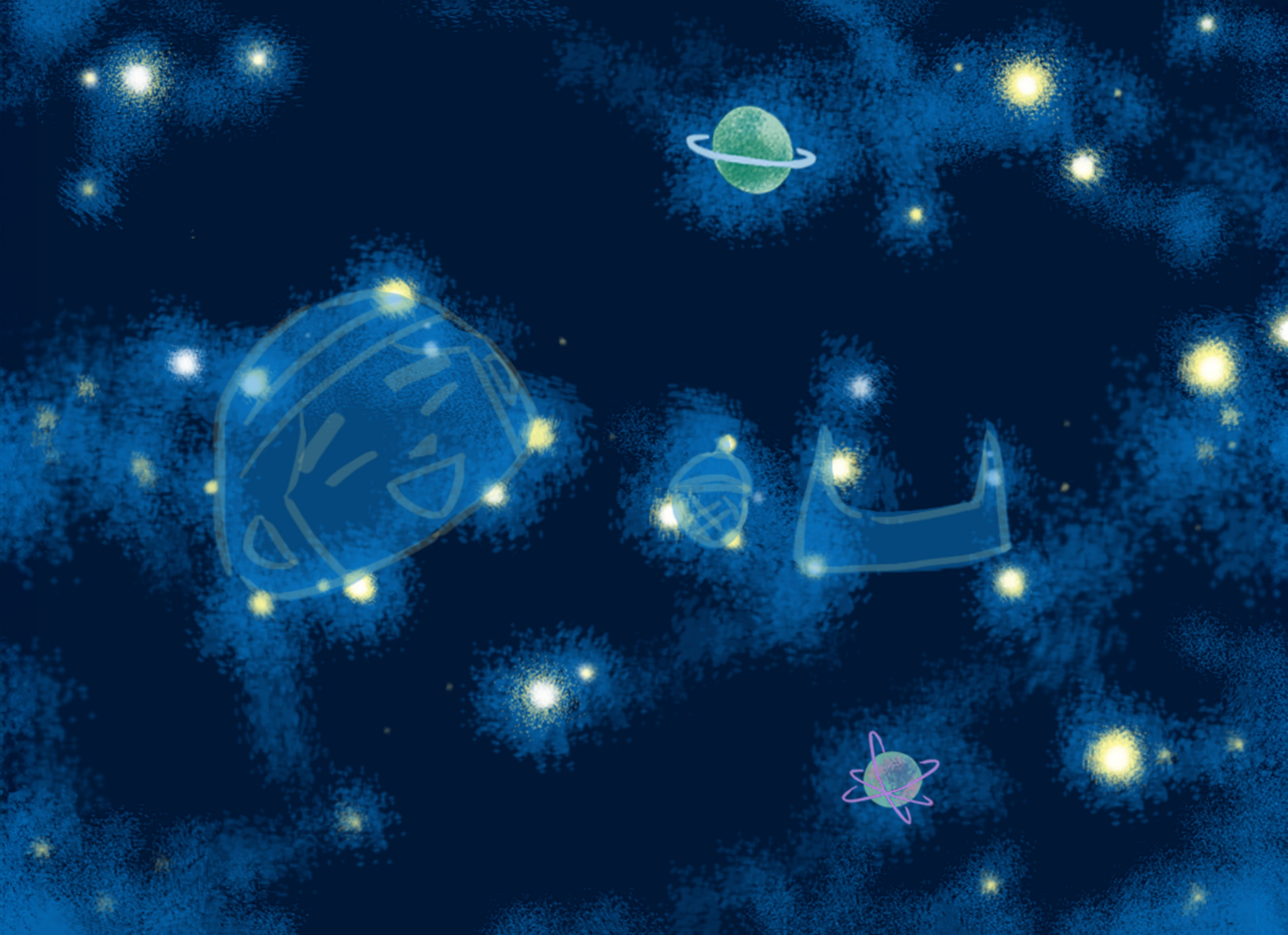
身為海洋民族，si Masagaz 要乘著拼板舟，在宇宙航行。



The Tao are a people of the ocean, so si Masagaz wants to sail the universe in a tatala boat!









Caay ka eca^, o mamareko^ ni Masa^ konini a demak.



si Masagaz 一定會成功的。



si Masagaz will surely realize his dream.

慢

原



一般單詞

中文	詞性	族語
操作	動詞	mi-on-ting
研究	名詞	pikingkiw
變濕	動詞	ma'opic
細微的	形容詞	mamama:ngay
幫助	動詞	sapalahad
水芋	名詞	sakinanom a tali^
去除	動詞	mipocpoc
飛	動詞	molalek
搗	動詞	taliken
最強的	形容詞	saci'icelay
出動	動詞	malingad
夾	動詞	mingitid
圍捕	動詞	lawop han a milepel
漂浮	動詞	mapawpaway
成功	動詞	mareko^

中文	詞性	族語
會合	動詞	matatawos
溫室	名詞	riwang
重力	名詞	faeket
毛細管	名詞	mimingay a hoson^
毛細現象	名詞	maw-si-syen-syang
水分子	名詞	rafor no nanom
地心引力	名詞	mihedotay a 'icel no 'oriraw
吸附力	名詞	mihedotay a 'icel
分子間內聚力	名詞	masasolotay a 'icel no rafor
藍光	名詞	langdaway a likat
紅光	名詞	kahengangay a likat
宇宙	名詞	sofal

科學單詞

# 吉娃斯愛科學 阿美族語 (秀姑巒阿美語)

## 第04集 水芋田宇宙

補助單位一 教育部國教署 (繪本紙本製作與族語翻譯配音)  
計畫名稱 「發現天生科學家：原住民族文化科學學習實踐與發展十年計畫」 (第二階段第二年)

補助單位二 國家科學及技術委員會 (繪本繪圖製作)  
計畫名稱 「吉娃斯愛科學IV：太空站部落」

計畫主持人 傅麗玉  
計畫執行單位 國立清華大學原住民族科學發展中心

族語翻譯 Kolas Foting (朱清義)  
族語配音 Kolas Foting (朱清義)  
族語翻譯審查 Eyko Angay (張月瑛)

英語翻譯 Joelle Chevrier (蔡雪青)  
英語配音 Barton Steven Grant  
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