



吉娃斯愛科學繪本

第04集
水芋田宇宙

卑南族語
(初鹿部落卑南語)

翻譯 / 配音
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吉娃斯愛科學

第04集 水芋田宇宙

卑南族語 (西群卑南語)



族語全文朗讀



華語全文朗讀



英語全文朗讀



吉娃斯

Iwas

飛奔

Puypuy

乃奈

Ungay

里昂

Limay



Na Rukup kana Vu'ir



水芋田宇宙



The Universe of the Taro Paddy

慢

原







meredek Ira na kalingatrhaku na vekal.



新的太空艙來了。



The new space capsule has arrived.

慢

原







ra'emtr temulre'ay pakawang i Puypuy kana kalingatrhaku na vekal i dawilr. maranger "paretrevungaw" na kalingatrhaku zi na kalingetran i kalingatr.



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







mutulre'ay mudaway na maretrevungan!



會合成功!



The rendezvous is a success!







mahelr mukuwa mena'uwa za mawan kana kalingatrhaku na vekal i Puypuy.



飛卉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.

慢

原







a kalingatr kasadekuwan na kalingatrhaku na vekal. karuwa ta semalem za kulang, zi karuwa ta semuwazesus temakesi asavak za kama'izangan kana tatelriwan i kalingatr.



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







marekamelri na aluzunan i kalingatran zi i cikiw. semeneng, melak kana “humulrsiēnsiyang” na mitrepayan, zi tu pakawangaw na ’enay iturus kana humulr’anun. ’azi semiya’ tu aelrangan.



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。



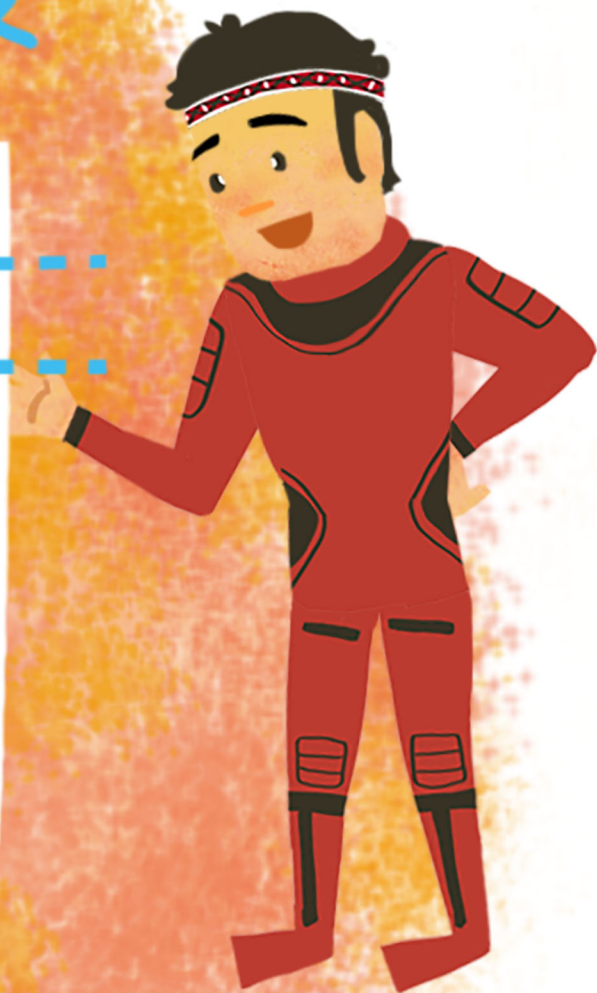
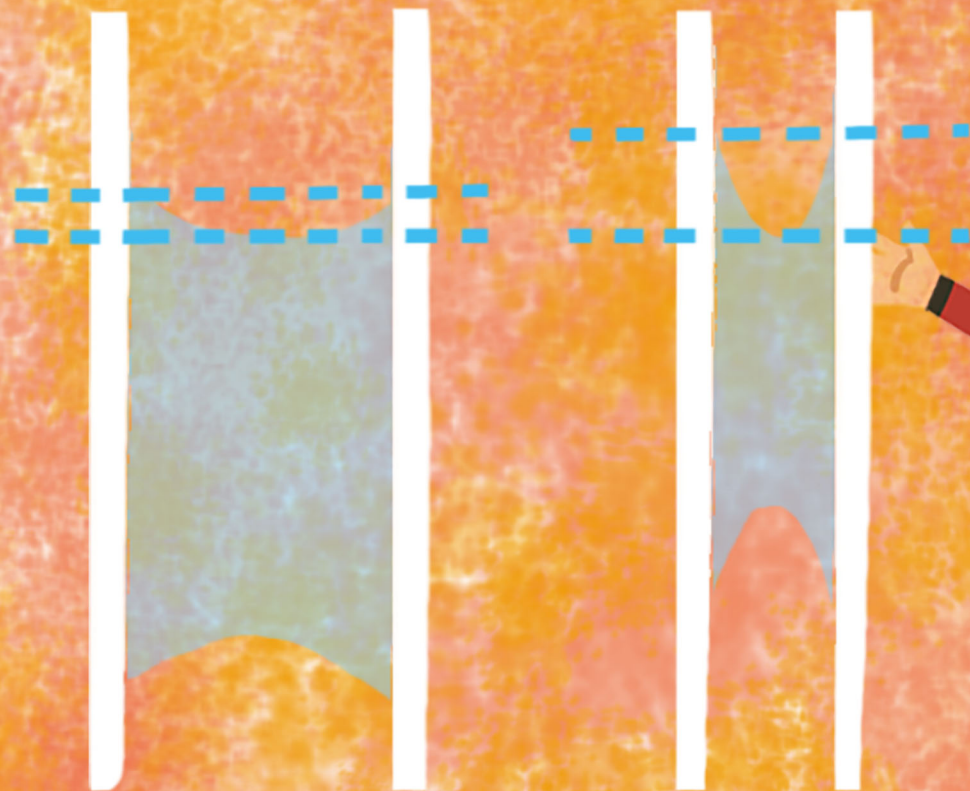
Gravity within the space station is different from that on earth, so scientists make use of the “capillary phenomenon” so that moisture moves along the direction of capillaries and doesn’ t fly everywhere.

慢

原



毛細現象





mizemeketran na 'enayvence zi na emanvnce. nu marama'izang i ini na zemeketran kana piyawmiēncangli na dinaway na marewazukan i savak kana vence mu, maruwa pakiseker na 'enay kana tisininli zi piyaitras kemawang. i ini na kakudayan mu, a “humulrsiēnsiyang” kema.



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.”







kamawan za ta puwayay na hinpu a parekazuwa kana 'enay, na 'azi pinupuwa a parekazuwa kana 'enay mu, kasapene'. 'alra mau na humulrsiēnsiyang.



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。

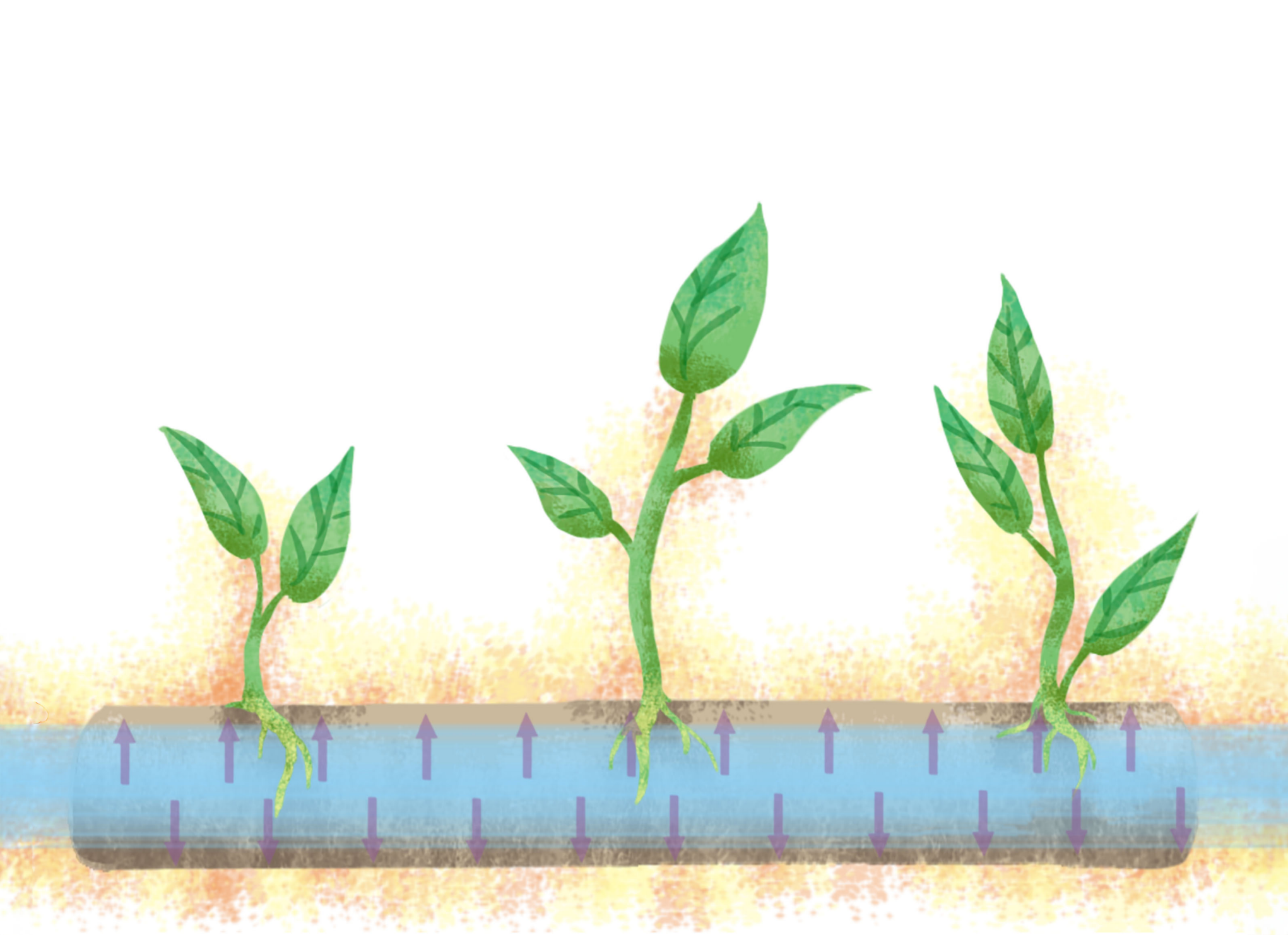


For example, if we put half of a towel in water, even the part not in the water will get wet. This is because of the capillary phenomenon.

慢

原







na 'anun na kazu i “tatelriwan salrazan” kana kalingatr kasadekuwan mu, sazu a vuwang a kamakitekiteng. karuwa pasapene'aw tu rami kana tatelriwan kana vuwang na kamakitekiteng.



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。

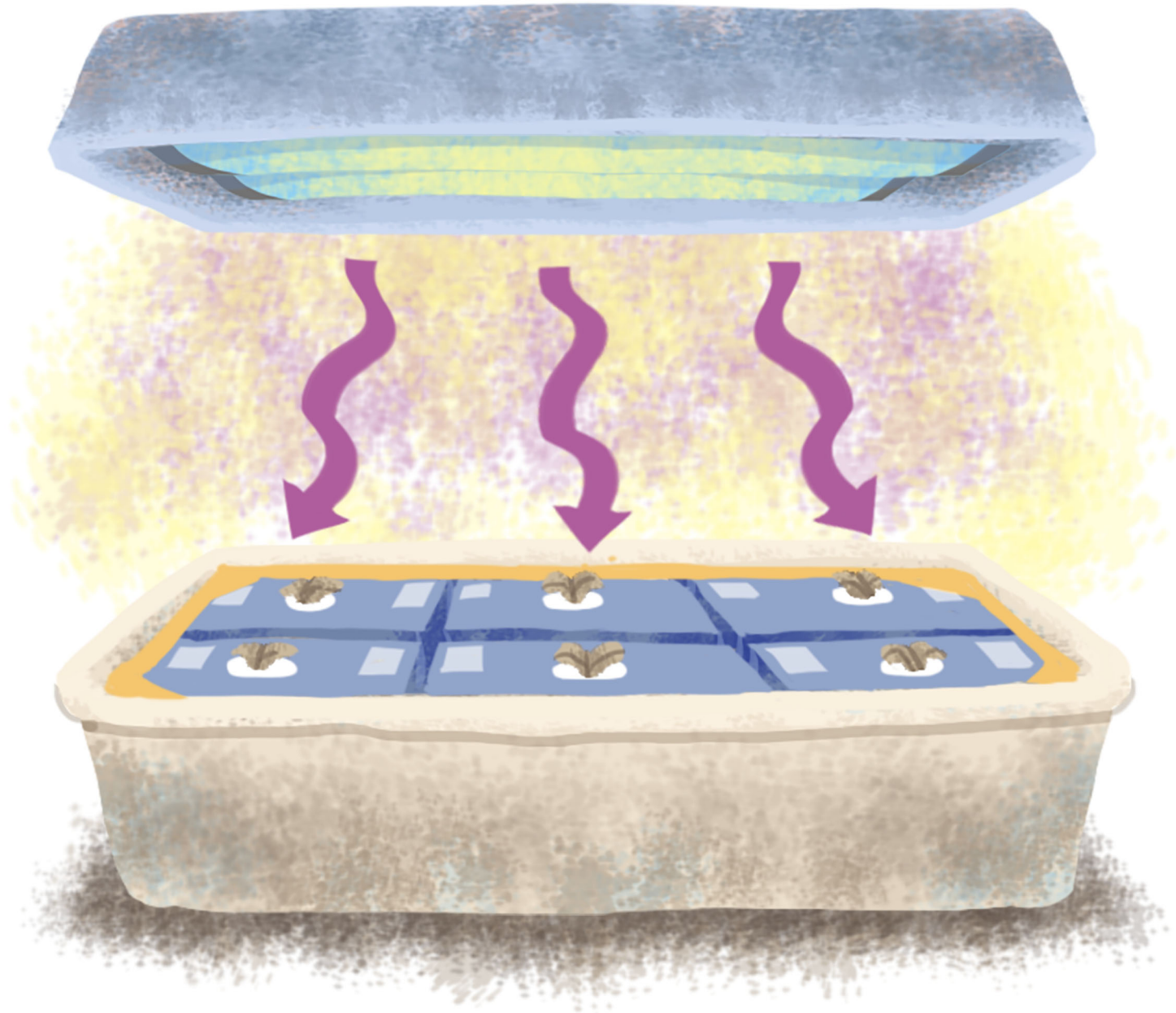


In the space greenhouse the water pipes within “plant pillows” have many tiny holes through which the water can moisten plants’ roots.

慢

原







ulra ziya a zuma, maruwa na kalingatr kasadekuwan pasenan za tremangiya senan zi za zemiya senan zi puwalrang za tatelriwan semever.



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.







'azi paranger i Puypuy, kararuwa mutumuwa'uma i kalingatran a!



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







kanini na wari harem mu, penauwa za mutumuwa'uma i Iwas i 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







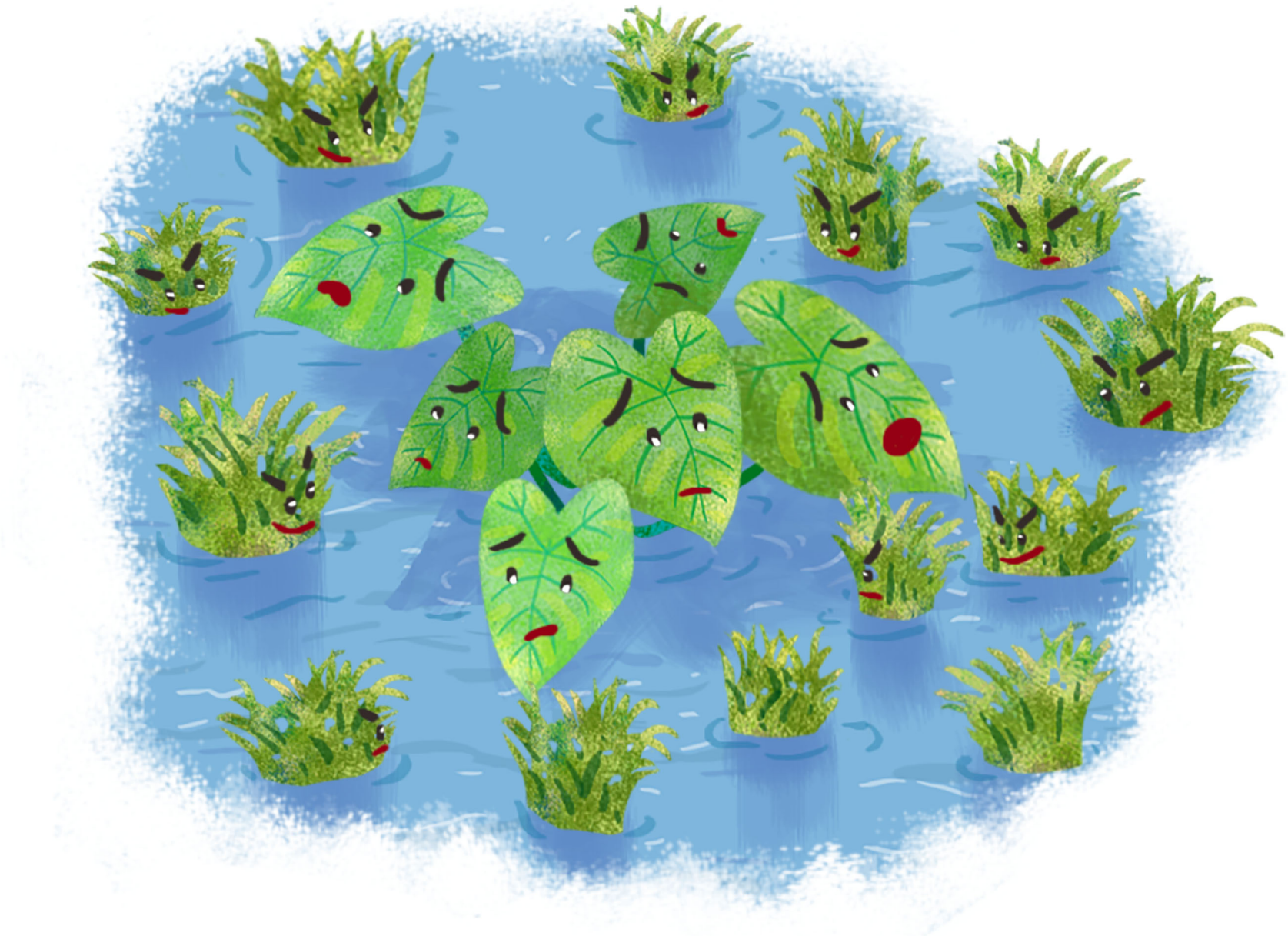
ta keretraw na vu'ir zi veliyasaw temusuk kana 'atrusal i 'uma mu, karuwa temelriw za vu'ir za vekal.



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.





nu eman mu, karara'emetr ta mukuwa 'emuvutra za tralun na amanan zi puwalrang semever kana vu'ir.



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







merengay na Tau a mapiya, na vavayan na maratrang mu, wavavavii tu vu'ir a karasaasa, na vavayan na ra'ematr mu, wasasasever tu vu'ir a karasaasa.



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。



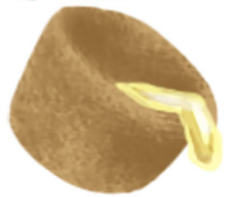
Tao people say, a lazy woman's taro diminishes by the day, but a hardworking woman's taro gets bigger all the way!

慢

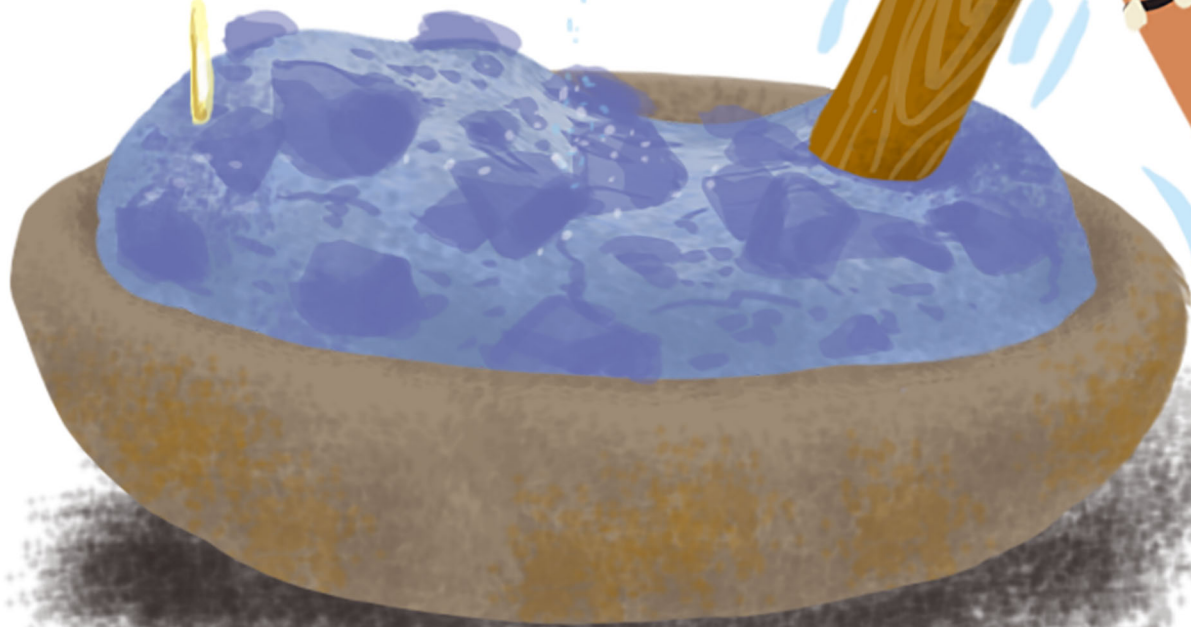
原



油



鹽





ta ta'uraw na vu'ir, dukelaw, zi puwayay za lrawlraw kana 'alum na kinerang zi za iyam a saema.



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







mupana lra za 'avay za vu'ir na imaran!



美味的芋頭糕誕生了！



The delicious mashed taro is done!

慢

原







kamaranger i Iwas murung za 'avay za vu'ir zi za trava'i i kalingatran mu, mulremes na kavarasa'.



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!







mau a karina'an, tu angtripaw na kavarasa' zi penusar.



原來是一隻陸蟹把聖石夾走了！



It was taken by a terrestrial crab!

慢

原







uri wapana Ira na trau kana Tau, i si Mazngang, na marakasaihuihu
'emevang za karina'an.



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







kivulri na karina'an i savak kana vutrek kana tralutralun. ta iya'aw na vuwang nantu wapanayan mu, karuwa ta kemerutr pupana kantaw.



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







'evaevangaw na karina'an za pipidaya, mawmu, amelri peniya na karina'an na mangtrip za kavarasa'.



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







i likuzan Ira, tu litrungaw 'emevang kana mapiya, zi tu elakaw puruma' na kavarasa' Ira.



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







tu retra'anay ni Iwas na karina'an na mangtrip kana kavarasa'.



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







'alra na maruwa lra tu 'inevang za karina'an kana mapiya.



因為大家捉到的陸蟹已經夠多了。



because they already caught enough crabs.

慢

原







kurelrang kani Iwas zuwa i kalingatran i si Masagaz.



si Masagaz 跟著吉娃斯來到了太空站。



si Masagaz arrives at the space station with Giwas.







mena'u i Puypuy za aekanan na matemuy zi 'emalinavan i kalingatrhaku mu, pukasa kana semangalan!



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!

慢

原







menana'u i si Masagaz kana cikiw i patraran kana lataw mu, muwatu ku a kalingatrau nu kaaidan kema i intaw.



si Masagaz 看著觀景窗外的地球，他說以後也要當一個太空人。

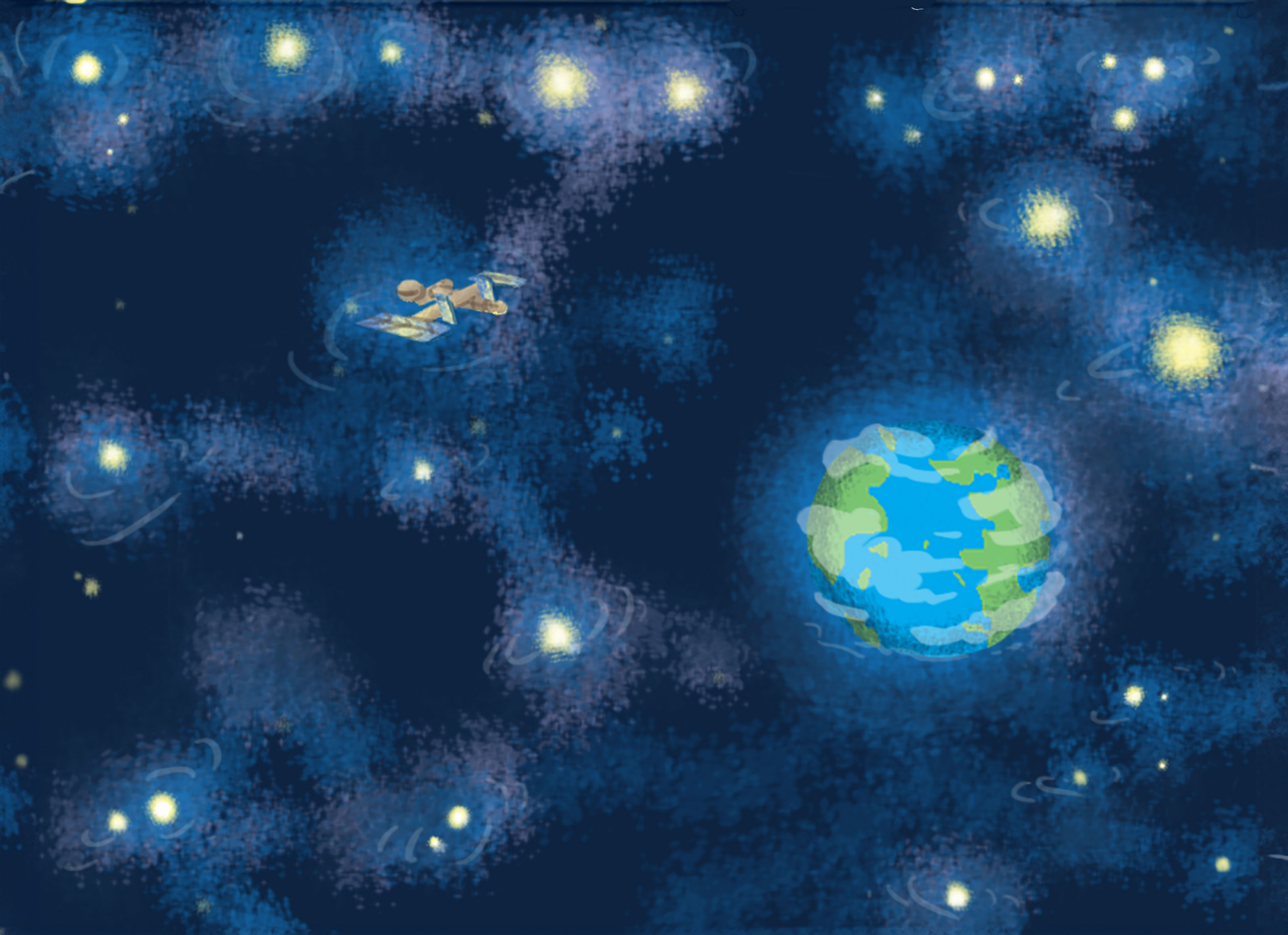


si Masagaz looks at the view of the earth from the window and says he wants to be an astronaut one day too,

慢

原







'alra na rukup mu, a lrevek kana cikiw.



因為宇宙就是地球的海洋。



because the universe is like the earth' s ocean.

慢

原







mutu a 'alrayan kana lrevek mu, aitras i si Masagaz za tamina mukuwa i rukup 'emiva'ivata.



身為海洋民族，si Masagaz 要乘著拼板舟，在宇宙航行。

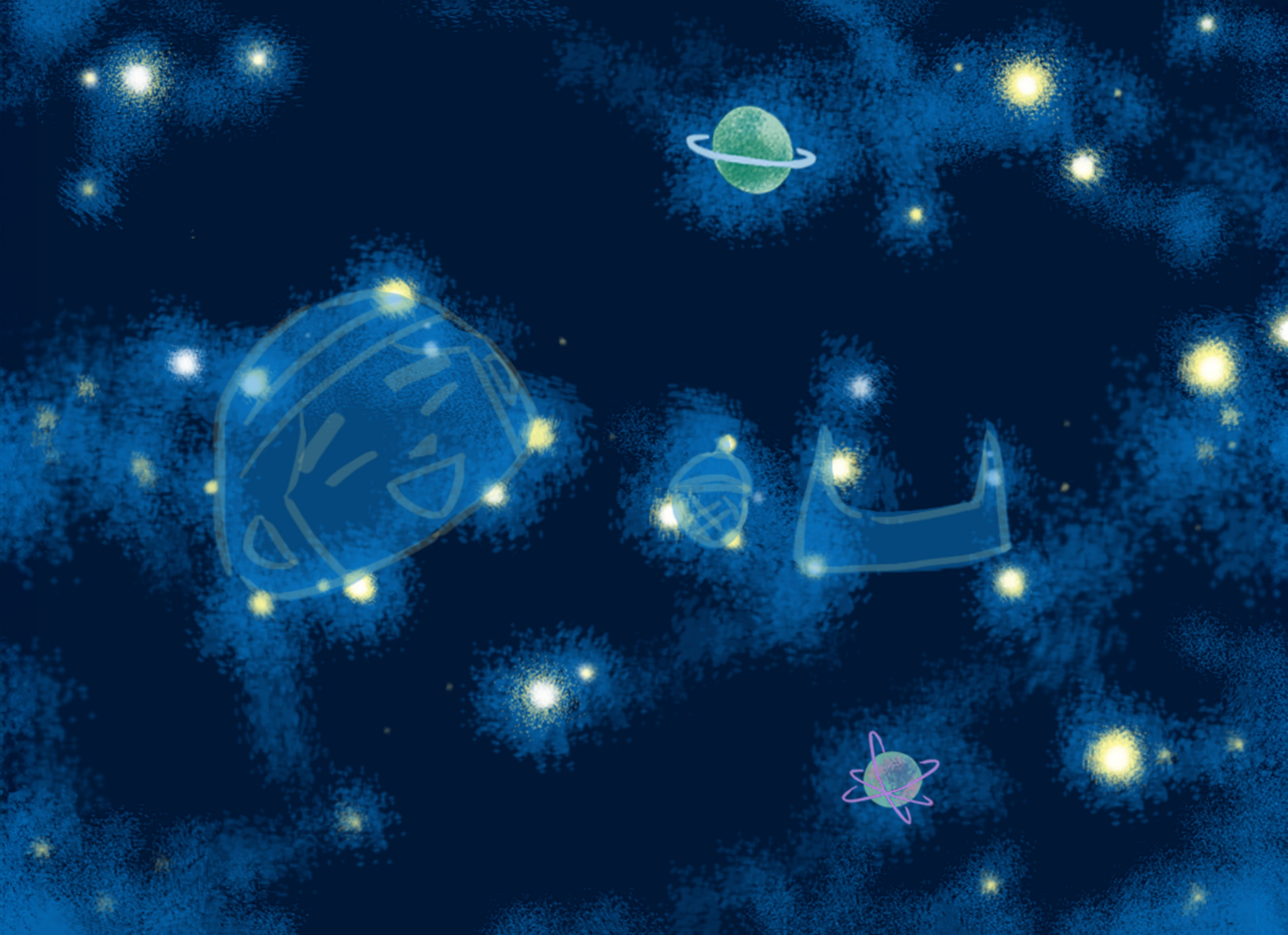


The Tao are a people of the ocean, so si Masagaz wants to sail the universe in a tatala boat!

慢

原







ka'azi'a'azi mutulre'ay mudaway i si Masagaz.



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
細微的	形容詞	kamakitekiteng
去除	動詞	'emuvutra
雜草	名詞	tralun
懶惰的	形容詞	maratrang
飛	動詞	wavavavii
搗	動詞	dukelaw
陸蟹	名詞	karina'an
最強的	形容詞	marakasaihuihu
躲	動詞	kivulri
挖	動詞	kerutraw
夾	動詞	mangtrip
圍捕	動詞	litrungaw 'emevang
漂浮	動詞	'emalinavan

中文	詞性	族語
會合	動詞	maretrevung
溫室	名詞	kasadekuwan
重力	名詞	aluzunan
毛細管	名詞	humulr'anun
毛細現象	名詞	humulrsiēnsiyang
水分子	名詞	'enayvence
地心引力	名詞	tisininli
吸附力	名詞	zemeketran
分子間內聚力	名詞	marewazukan i savak kana vence
藍光	名詞	tremangiya senan
紅光	名詞	zemiya senan
宇宙	名詞	rukup

科學單詞

吉娃斯愛科學 卑南族語 (西群卑南語)

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)
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吉娃斯 愛科學 Go Go Giwas

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