



吉娃斯愛科學繪本

第04集  
水芋田宇宙

雅美 (達悟) 族語

翻譯 / 配音  
sinan Sakayan  
(希嫻·紗沓燕)

# 吉娃斯愛科學

第04集 水芋田宇宙

## 雅美 (達悟) 族語



族語全文朗讀



華語全文朗讀



英語全文朗讀





吉娃斯

Ciwas

飛卉

Veyhwey

乃奈

Naynay

里昂

Di'ang



akmey sinokob no angit no ora nihakawan



水芋田宇宙



The Universe of the Taro Paddy

慢

原









ya na mai o vayo a taykongcang.



新的太空艙來了。



The new space capsule has arrived.

慢

原









pakapiahen na ni Veyhwey do karayan a pivazain o vayo a taykongcang, ikasonong no taykongcang aka no taykongcan a “meysinmo o taykong”.



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









ya pia o da kanipisinmohan!



會合成功!



The rendezvous is a success!

慢

原









ji na piapia kananala na sia ni Veyhwey a mangay tomita so kamamagenan  
no vayo a taykongcang.



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









o vayo a taykongcang ri am asa ka onse, apia ori a pimoan so napa, a ka no citahan so amlida a voovoong do sinokob no angit.



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 taykongcan a ka no tamo takadan a Ticyow ya am meytarek so condi da, so pangozayan da do mawsi siansiang, italilis no ranom do mawsikoan a amvoyog ji nala so angayan.



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。

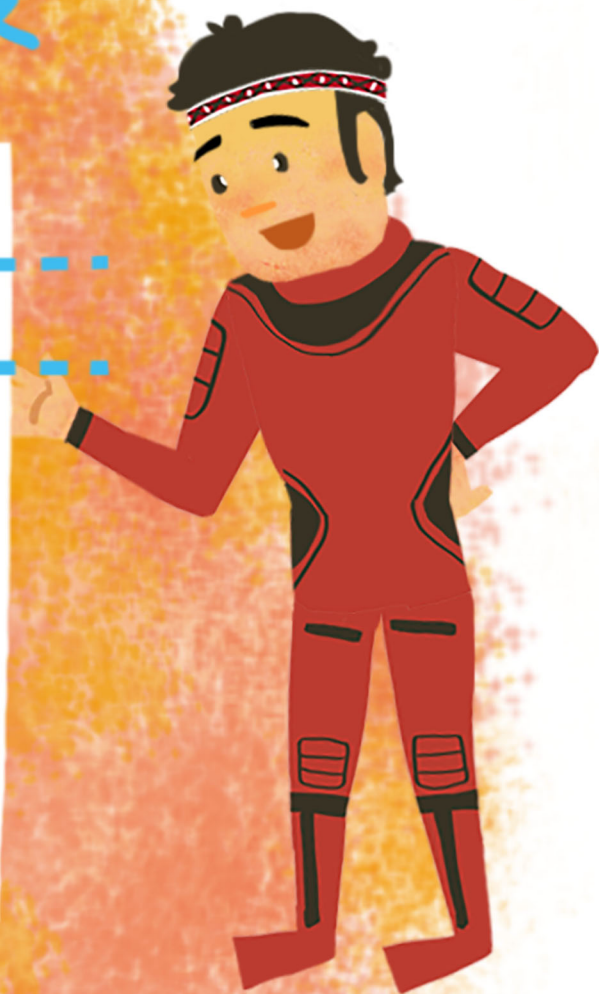
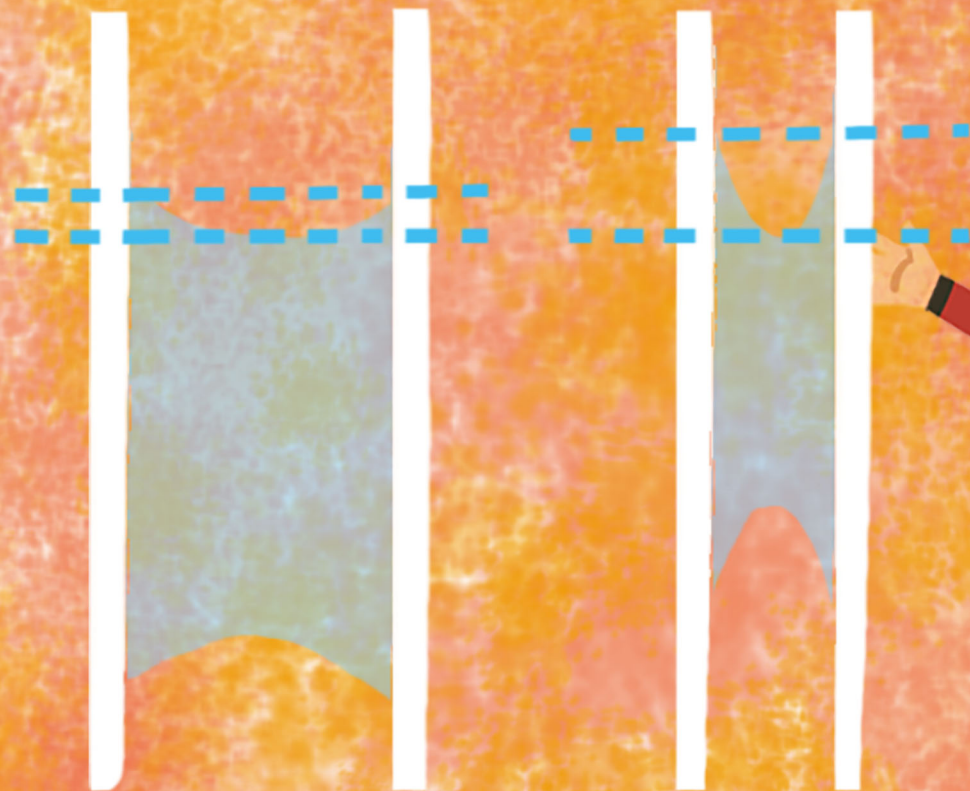


Gravity within the space station is different from that on earth, so scientists make use of the “capillary phenomenon” so that moisture moves along the direction of capillaries and doesn’ t fly everywhere.





# 毛細現象





o soyvence a ka no yanan no ranom a akmey voong ri am, mian so akmey panaptan na, no toda rakorako o sivodi no vencecian neycidi am, ji na maman no ranom o tisinindi a mipangaz a ji aglo, ori ipanci a “mawsi siansiang”.



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









makoan so tenegey a tahemen so kanaroan do ranom, o ji nimatahem do ranom ori am toda vasa ori, ta meymangononong do mawsi siansiang ang.

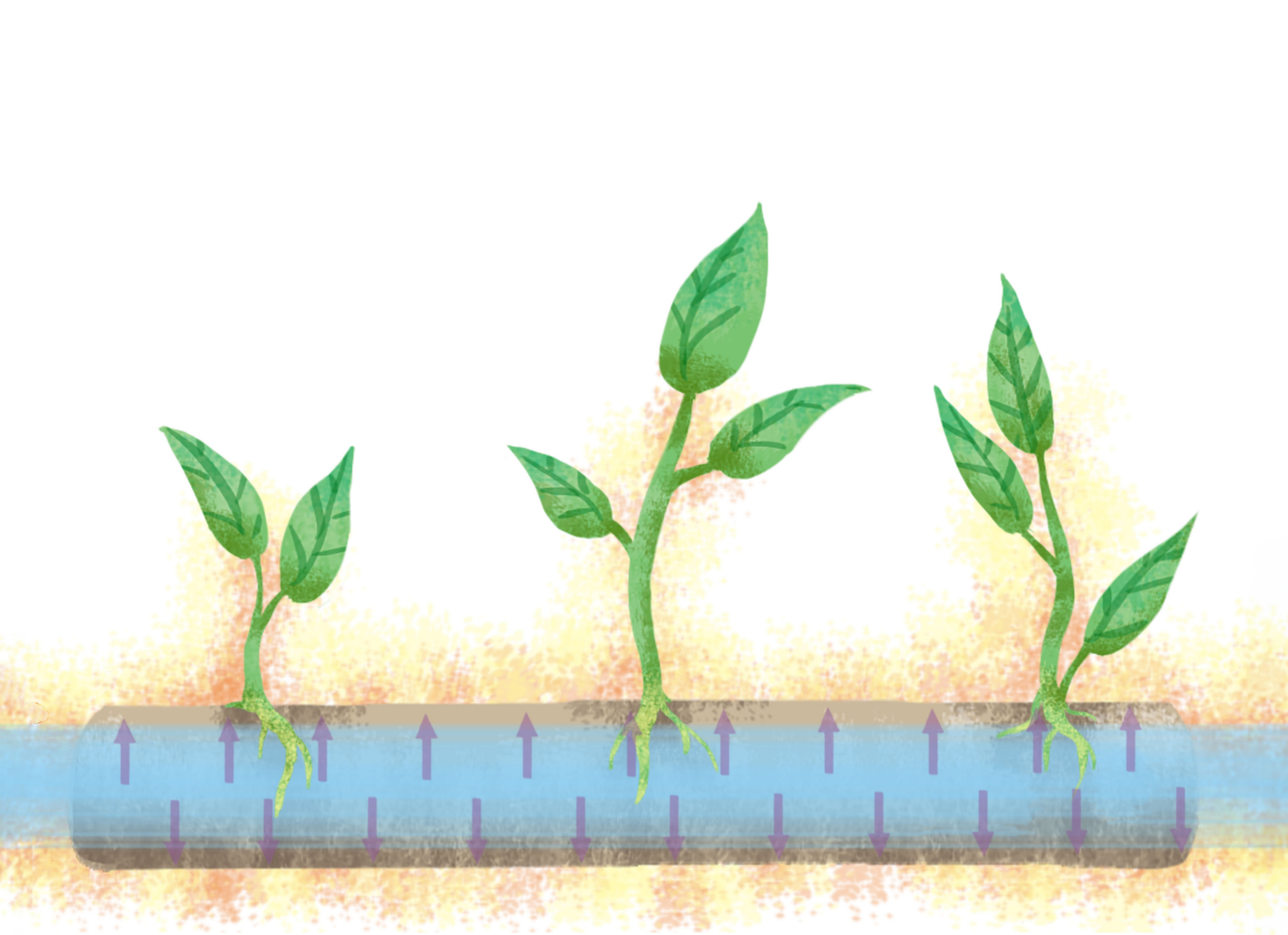


例如把毛巾放一半到水裡，沒有進入水裡的部分也會變濕，就是因為毛細現象。



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.







o mian do sinokob no angit a onse, ipanci a “tangen no tametamek” ri am, ji avilangi o karoaro no akmey lidan no bobow a vavahay, pangonongan no ranom a makatneb so yamot no tametamek.



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。



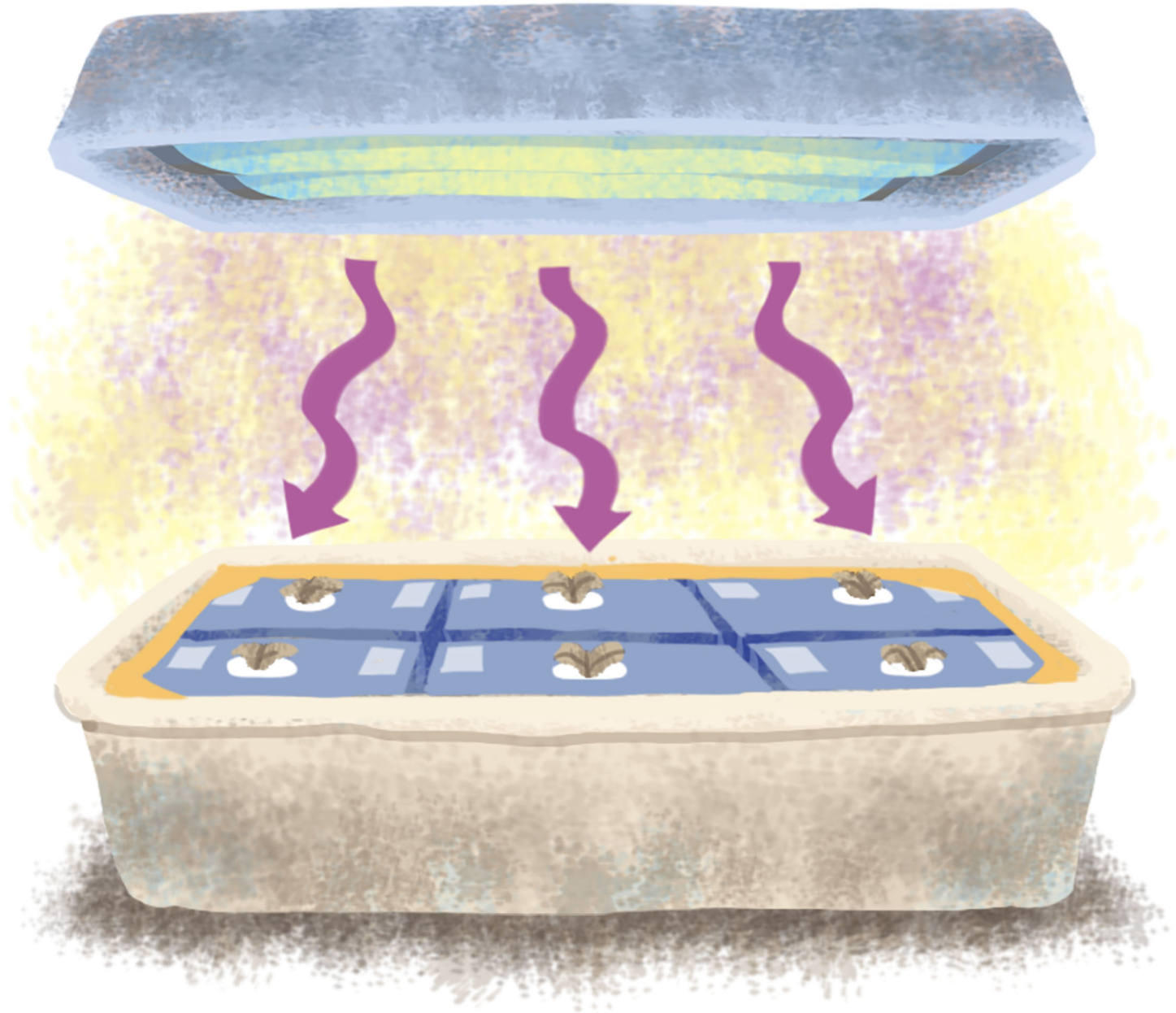
In the space greenhouse the water pipes within “plant pillows” have many tiny holes through which the water can moisten plants’ roots.

慢

原









a ka no mian do sinokob no angit a onse ri am, mian so makaciray so moamoa a lankoang a ka no hongkoang, ikapiya na somidong so moamoa a amlida.



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









ipizokab na ni Veyhwey, o kapyra na a mimoamoa do taykongcan!



飛弁想不到, 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!







a o mian do Ivatas a si Ciwas ori am, todey minadnad sira a omhakakaw  
a tao!



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









teyka a angahen o soli am, paolihen o opi na ipaneveng do ora, kalida no vayo a soli.



割下水芋後，把莖插回田裡，就能長出新的水芋。

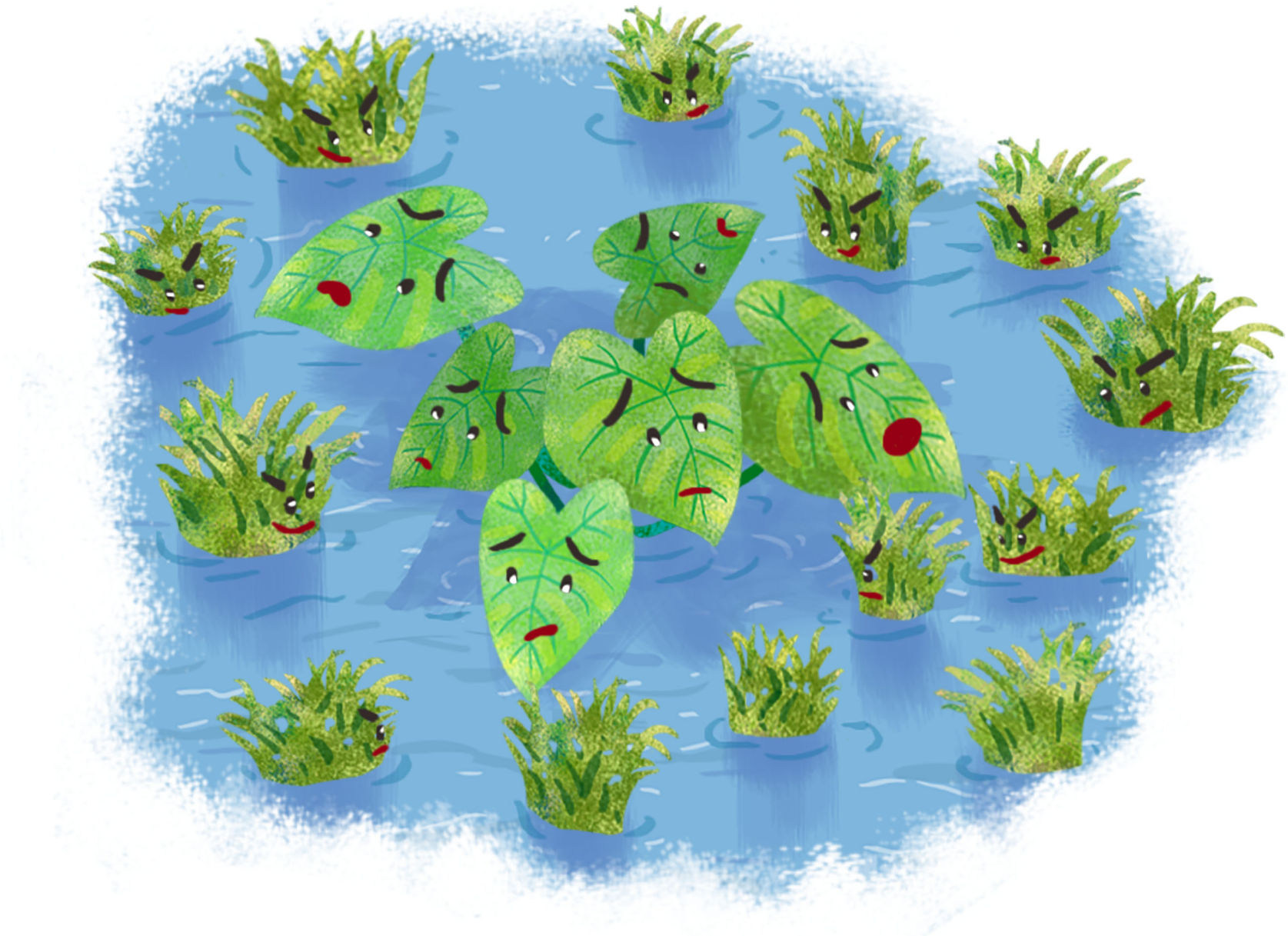


After cutting off the taro, they place the stems back into the paddy so that it will grow a new taro root.

慢

原









o mararahet a tametamek do ora am, ji piyahahaya a wadwadan, ikapipia no niakawan a soli.



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







ipanci no tao do pongso ya, o siboan no malma mavakes am, akmey to meyciasalasalap o soli na, am o mowyat a mavakes am, akmey mamaseveh o soli na.



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!

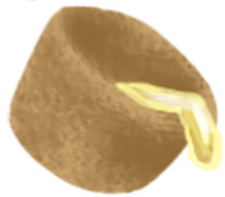
慢

原

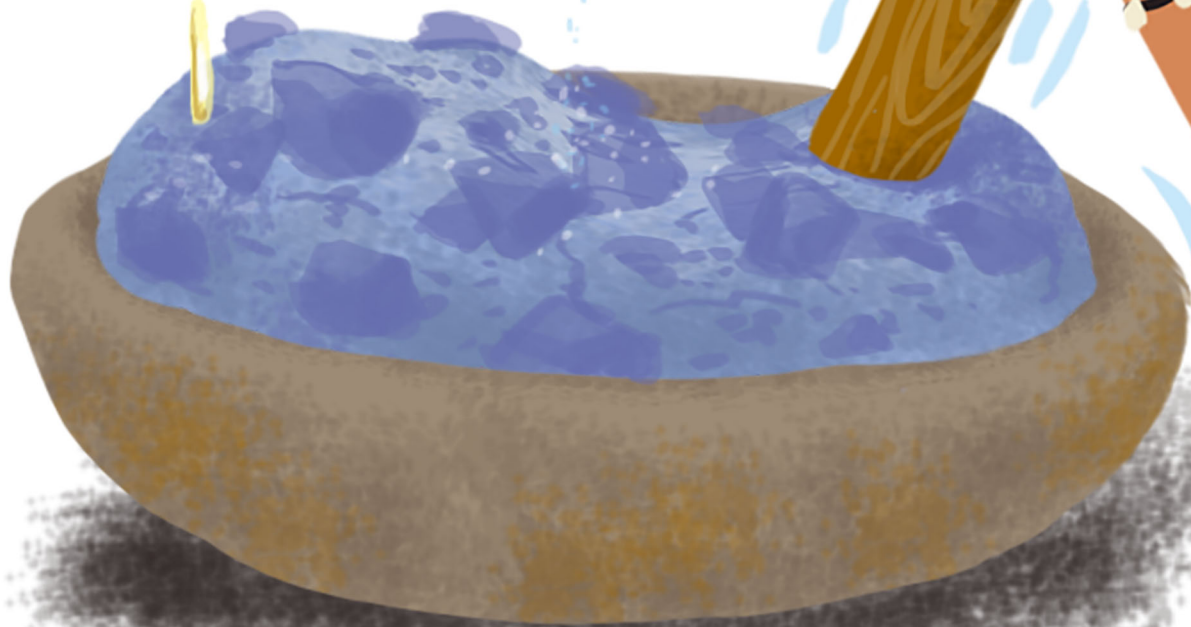




油



鹽





no madengdeng rana o cinaripan a soli am amain, kaaraw sia do lalig a panangdang so taroy a ka patazakatan so apereh a asin.



水芋蒸(煮)熟後，搗成泥狀，(放木盤上)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









panamen rana o ya mahango a nimay!



美味的芋頭糕誕生了!



The delicious mashed taro is done!







do ipanakenakem na ni Ciwas kapangekeh na so nimay a ka no libangbang  
a yangay na do taykongcan am, to ji abo rana o sense a!



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!

慢

原









a ori ta nisopit no asa aka teyngi a akoten!



原來是一隻陸蟹把聖石夾走了！



It was taken by a terrestrial crab!

慢

原









o neymateneng na maneneyngi a si Mazngang am, mangay komala so raharahan no teyngi.



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







omozib o teyngi do katamtamekan a kananayan. no makala o vavahay no teyngi am, ori saon kaliao sia rakepen am.



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









to mitatahapis o aro a teyngi a rakepen da, am beken a nisomopit so sense ang.



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









mownay am, pikavazavazatan da rakepen o teyngi, ori nipakahap da rana so sense.



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







to na pasawaya rana ni Ciwas o nisomopit so sense a teyngi ori.



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









ta aro rana o nirakep da a teyngi ang.



因為大家捉到的陸蟹已經夠多了。



because they already caught enough crabs.

慢

原











nimaciangay si Masagaz ji Ciwas a mangay do taykongcan.



si Masagaz 跟著吉娃斯來到了太空站。



si Masagaz arrives at the space station with Giwas.







macita ni Veyhwey o aro a kanekanen a mahatahataw do sahad no avang  
no sikoki do angit am masaray a!



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!









macita ni Masagaz do pantaw no mado no Ticyow am, to na rana mancian,  
nomakoa am, inarahen na sira somalap do angit a tao.



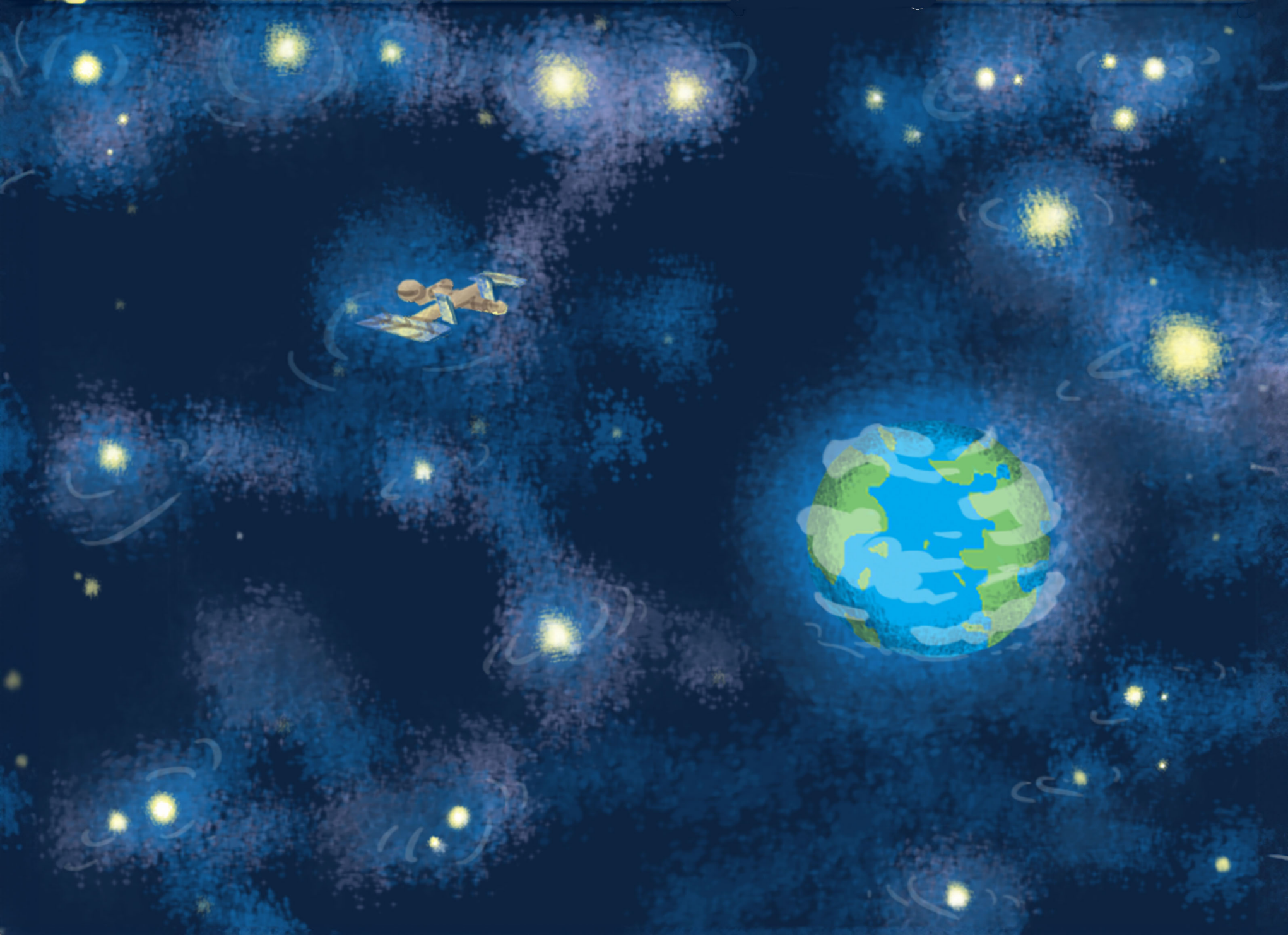
si Masagaz 看著觀景窗外的地球, 他說以後也要當一個太空人。



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











ta o sinokob no angit am, ya amlimot do Ticyow a rako a awa.



因為宇宙就是地球的海洋。



because the universe is like the earth' s ocean.

慢

原







makoan si Masagaz a nimapodpod do mangahangahahap a tao do pongso am, manakem na kapamakong na so tatala na do sinokob no angit.



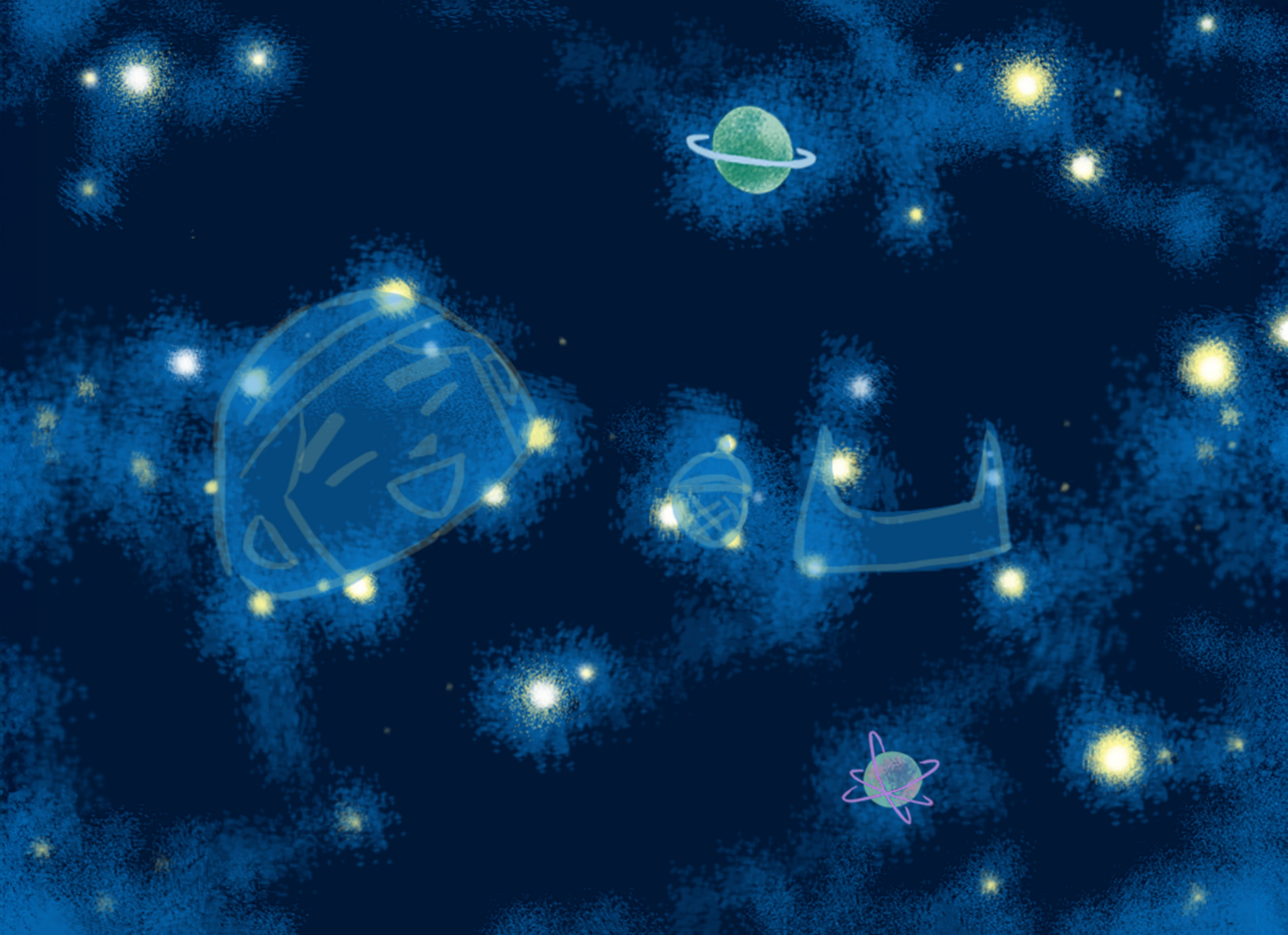
身為海洋民族，si Masagaz 要乘著拼板舟，在宇宙航行。



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









ji abo kaji na makahapan sia ni Masagaz a.



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
生長	動詞	amlida
幫助;有助於	動詞	somidong
水芋	名詞	solì
去除	動詞	wadwadan
雜草	名詞	tametamek
懶惰的	形容詞	malma
搗	動詞	amain
陸蟹	名詞	teyngi
躲	動詞	omozib
洞口	名詞	vavahay
挖	動詞	kalian
抓	動詞	rakepen
圍捕	動詞	pikavazavazatan
漂浮	動詞	mahatahataw



中文	詞性	族語
會合	動詞	kanipisinmohan
溫室	名詞	onse
重力	名詞	condi
毛細管	名詞	mawsikoan
毛細現象	名詞	mawsi siansiang
水分子	名詞	soyvence
地心引力	名詞	tisinindi
吸附力	名詞	sivodi
分子間內聚力	名詞	vencecian neycidi
藍光	名詞	lankoang
紅光	名詞	hongkoang
宇宙	名詞	sinokob no angit



科學單詞

# 吉娃斯愛科學 雅美(達悟)族語

## 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 sinan Sakayan (希嫻·紗沓燕)  
族語配音 sinan Sakayan (希嫻·紗沓燕)  
族語翻譯審查 si Somapni (董瑪女)

英語翻譯 Joelle Chevrier (蔡雪青)  
英語配音 Barton Steven Grant  
華語配音 歐陽年年

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# 吉娃斯 愛科學 Go Go Giwas

 粉絲專頁



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