Task: Te Tiritiria o te Purapura — Spreading Seeds

Approach: One to one			
Focus: Plant adaptation Resources: 3 pictures, bidibid seeds			
Kupu: tiritiri = spread hutiwai = bidibid	tohetaka	= dandelion	
Questions / instructions:	% responses		% responses
Ka kōrerorero tāua me pēhea e tiria ai ētahi momo purapura ki te whenua.	responses		responses
Whakaaturia te pikitia tuatahi: te tohetaka.		Whakaaturia te pikitia tuarua: te purapura miro.	1
In this activity we'll be talking about how different seeds are spread.		Show student picture 2:	A.
Show student picture 1: dandelion.		miro berry.	
		 Ki tõu whakaaro ka pēhea nei te tiritiria o ngā purapura miro ki te whenua? How might the seeds of the miro berry be spread? www.euc.euc.euc.euc.euc.euc.euc.euc.euc.euc	4
 Ki tōu whakaaro ka pēhea te tiritiria o 		by animals/birds Ki te kore te ākonga e whakautu, māu e whakamōhio atu, ka kainga e te manu me ētahi	0
ngā purapura o te tohetaka ki te whenua? How do you think the dandelion's seeds		atu kararehe, ā, ka tiritiria mā te tuku tūtae. If necessary tell student that miro berry seeds	
are helped to spread? wind	70	are sometimes eaten by birds and other animals and the seeds are spread in the droppings.	
Ki te kore te ākonga e whakautu, māu e whakamōhio atu, mā te pupuhi o te hau ngā purapura tohetaka e tiritiria ai.		5. He aha te tino āhuatanga o te purapura miro	
If necessary tell student that dandelion seeds are spread by the wind.		e pai ai te tiritiria mā te tūtae manu, tūtae kararehe kē rānei?	
 He aha te tino āhua o te purapura tohetaka e pai ai te tiritiria e te hau? 		What is special about the way berry seeds are made that help them get spread by birds or other animals?	
What is special about the way dandelion seeds		colour to attract bird	2
are made that help them get spread by the wind?	-00	nice flavour, good food	7
lightness	23	hard seeds that survive being eaten/digested	0
fluffy bits to get caught by wind parachute/umbrella effect for landing	9 6	 He aha tētahi āhuatanga pai o te tiri purapura mā te tūtae manu, tūtae kararehe kē rānei? 	
 He aha tētahi āhuatanga pai o te tiri purapura mā te hau? 		What might be good about seeds being spread in bird or other animal droppings?	
What might be good about seeds being spread by the wind?		can travel a long way/land in good growth environment	8
can travel a long way/land in good growth environment	2	droppings fertilise seeds	2
other valid, well-explained reason	0	other valid, well-explained reason	0

18

Whakaaturia te pikitia tuatoru: te purapura hutiwai.

Show student picture 3: bidibid and packet of bidibid seeds.

% responses

6



- He aha te tino āhuatanga o te purapura hutiwai
- e pai ai te tiritiria mā te whakapiri atu ki te kiri kararehe, ki te kākahu tangata rānei? What is special about the way bibibid seeds are

made that help them get spread by clinging to fur or clothing?

> hooks/barbs grab stongly onto fabric/fur (hard to get off)

> > prickles/spikes get into fabric/fur (but relatively easily brushed off)

	% respons		
 He aha tētahi āhuatanga pai o te tiri purapura mā te whakapiri atu ki te kiri kararehe, ki te kākahu tangata rānei? 			
What might be good about being spread by clinging to animal fur or clothing?			
can travel a long way/land in good growth environment	4		
other valid, well-explained reason	2		
10. He aha tētahi āhuatanga e kore ai e pai te tiria o te purapura mā te hau, mā te tūtae manu, mā te whakapiri atu rānei ki te kiri kararehe?			
What might be not so good about seeds being spread by the wind, in animal droppings or on animal fur?			
a lot end up in places where they won't grow well	0		
they are a nuisance; end up in places where they are not wanted	4		
Total score: 11 – 16	0		
8–10	0		
5–7	10		
2-4	34		
0–1	56		

Commentary:

Most students had very limited understanding about how features of seeds help their spread.