

## Paerewa Paetae

|                               |                                       |                        |                            |
|-------------------------------|---------------------------------------|------------------------|----------------------------|
| <b>Aronga</b>                 | Hangarau Matihiko 1.6                 |                        |                            |
| <b>Ingoa</b>                  | Whakawhanake i tētahi pūnaha rorohiko |                        |                            |
| <b>Kaupae</b>                 | 1                                     | <b>Whiwhinga</b>       | 4                          |
|                               |                                       | <b>Aromatawai</b>      | ā-Roto                     |
| <b>Marau akoranga</b>         | Hangarau                              |                        |                            |
| <b>Kokonga akoranga</b>       | Hangarau Matihiko                     |                        |                            |
| <b>Mana rēhita</b>            | Kua rēhitatia                         | <b>Te rā i mana ai</b> | 23 o Whiringa-a-rangi 2017 |
| <b>Te rā e arotakengia ai</b> | 31 o Hakihea 2019                     | <b>Te rā i puta ai</b> | 23 o Whiringa-a-rangi 2017 |

E hāngai ana tēnei paerewa paetae ki te whanaketanga o tētahi pūnaha rorohiko.

### Paearu Paerewa

| Paetae   | Kaiaka   | Kairangi  |
|--|--|---|
| <ul style="list-style-type: none"> <li>Whakawhanake i tētahi pūnaha rorohiko.</li> </ul> | <ul style="list-style-type: none"> <li>Whakawhanake i tētahi pūnaha rorohiko mātau.</li> </ul> | <ul style="list-style-type: none"> <li>Whakawhanake i tētahi pūnaha rorohiko whaitake.</li> </ul> |

### Kōrero Whakamahuki

- I ahu mai tēnei paerewa paetae i te Taumata 6 o te wāhanga ako Hangarau o te marau *New Zealand Curriculum*, i whakaputaina e Te Pou Taki Kōrero i te tau 2007. E hāngai ana hoki ki ngā kōrero kua tuhia i te *Teaching and Learning Guide for Technology*, i whakaputaina e Te Tāhuhu o te Mātauranga, ā, ka kitea ki <http://seniorsecondary.tki.org.nz>.

He mōhiohia atu anō ka kitea ki <http://www.technology.tki.org.nz/>.

He tohutoro ki ngā mōhiohia hāngai kei te rauemi *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, i whakaputaina e Te Tāhuhu o te Mātauranga, ā, ka kitea ki <http://technology.tki.org.nz/Technology-in-the-NZC/Safety-in-Technology-Education-revised-2017>, ki te Ture Hauora me te Haumarua ki te Wāhi Mahi 2015 hoki.

I ahu mai hoki tēnei paerewa paetae i *Te Marautanga o Aotearoa*. Mō ētahi atu kōrero e hāngai ana ki ngā putanga ka whai wāhi i tēnei paerewa tēnā tirohia te [Papa Whakaako](#) kia kitea te wāhanga ako tika.

- Ka kapi i te paearu *whakawhanake i tētahi pūnaha rorohiko*:

- te whakamahinga o ngā utauta, ngā hātepe me ngā tikanga hāngai i te utanga me te whirihora o ngā pūmārō, ngā pūmanawa rorohiko, me ngā taputapu tāpiri mō tētahi whāinga me te kaiwhakamahi mutunga
- te whakahaere i ētahi hātepe whakamātautau, tātari, raparongoā hoki ki te tautohu me te whakatau i ngā hapa ā-utanga, ā-whirihora hoki
- te torotoro i ngā taputapu me ngā wae (pūmārō, pūmanawa hoki) ka whakamahia i te pūnaha rorohiko
- te whakaahuatanga o ngā pānga hāngai.

Ka kapi i te paearu *whakawhanake i tētahi pūnaha rorohiko mātau*:

- te whakamahinga o ngā mōhiohio kua kitea i ngā hātepe whakamātau, tātari, raparongoā hoki ki te whakapai ake i te kounga o te pūnaha rorohiko
- te whakamāramatanga o te whāinga waiwai me te mahi o ngā taputapu me ngā wae (pūmārō, pūmanawa hoki) ka whakamahia i te pūnaha rorohiko
- te wheranga o ngā pānga hāngai.

Ka kapi i te paearu *whakawhanake i tētahi pūnaha rorohiko whaitake*:

- te whakamahinga tika o ngā utauta, ngā hātepe me ngā tikanga i te wā e uta ana, e whirihora ana hoki i ngā pūmārō me ngā pūmanawa kia tutuki i te hua te whāinga
- te taunaki i ngā take i whiriwhirihia ai ngā taputapu me ngā wae (pūmārō, pūmanawa hoki) i whakamahia i te whanaketanga o te pūnaha rorohiko.

3. Hei tauira o ngā pānga hāngai:

- pāpori
- ahurea
- ture
- matatika
- whakairoiro hinengaro
- matatapu
- āheitanga
- ngā āhuatanga o te whakamahi
- ngā āhuatanga taumahi
- taha rerehua
- toitūtanga me te ora ā-raurangi
- te whakaaro ki ngā kaiwhakamahi mutunga
- te hauora me te haumarutanga.

4. Koinei ētahi o ngā hātepe e tika ana mō te uta me te whirihora i ngā pūmārō, pūmanawa me ngā taputapu tāpiri:

- te whakamahinga o ngā hātepe kua tautuhia kētia i ngā puka aratohu mō ngā hanga ā ngā kaihangā
- ngā hātepe āraipateko
- ngā hātepe whakahaumarū ā-iahiko
- te whakatutukinga o ngā whakaritenga hanganga, whakamana hoki
- ngā waeture hāngai mō te haumarū me te hauora i te umanga

- te whakaea i ngā whakaritenga mā ngā kaiwhakamahi mutunga.
5. Koinei ētahi hātepe whakamātau tērā pea ka kitea:
    - ngā hātepe e whakaū ana i te whakataunga o ngā take hototahi
    - katoa ngā pūrere pūmārō e kitea ana, ā, e mahi tika ana hoki ki te urupare i ngā tūmomo tono
    - kua tautohua ngā papatono pūmanawa
  6. Koinei ētahi hapa ā-tāuta, ā-whirihora tērā pea ka puta mai:
    - kua hē, kua ngaro rānei ētahi taura
    - kua hē te tāutanga o ētahi pūmārō
    - kua ngaro, kua hotokore rānei ētahi atekōkiri, pūnaha pūmanawa hoki
    - kua hipa i ētahi tohutohu whakauta pūmanawa rorohiko
    - kua hē te putanga o te pūmanawa rorohiko
    - kua hē ngā tawhā whirihora pūmanawa rorohiko
  7. Ka kitea ngā Tikanga Aromatawai e hāngai ana ki tēnei paerewa paetae ki <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.
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### **Mōhiohio Whakahoutanga**

He whakahoutanga tēnei paerewa paetae o te AS91080 me te AS91081.

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### **Tātari Kounga**

1. Me mātua whakamana ngā Kaituku Akoranga me ngā Whakahaere Whakangungu Ahumahi e te Mana Tohu Mātauranga o Aotearoa ka rēhita ai i ngā hua ka puta mai i ngā aromatawai ki ngā paerewa paetae.
2. Me uru ngā Kaituku Akoranga me ngā Whakahaere Whakangungu Ahumahi kua mana, ā, e aromatawai ana i ā rātou hōtaka ki ngā paerewa paetae, ki ngā pūnaha whakarite e tika ana mō aua paerewa paetae.

Ko te tohutoro ki te Mahere Whakamana, Whakaōritenga hoki 0233