

See back cover for an English translation of this cover

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91192M



911925



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

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Te Pūtaiao ā-Papa, ā-Rangi, Kaupae 2, 2013

91192M Te whakaatu māramatanga ki ngā whetū me ngā pūnaha ao ātea

2.00 i te ahiahi Rātū 26 Whiringa-ā-rangi 2013
Whiwhinga: Whā

Paetae	Paetae Kaiaka	Paetae Kairangi
Te whakaatu māramatanga ki ngā whetū me ngā pūnaha ao ātea.	Te whakaatu māramatanga hōhonu ki ngā whetū me ngā pūnaha ao ātea.	Te whakaatu māramatanga matawhānui ki ngā whetū me ngā pūnaha ao ātea.

Tirohia mehemea e ōrite ana te Tau Ākonga ā-Motu (NSN) kei tō pepa whakauru ki te tau kei runga ake nei.

Me whakautu e koe ngā pātai KATOA kei roto i te pukapuka nei.

Ki te hiahia koe ki ētahi atu wāhi hei tuhituhi whakautu, whakamahia te (ngā) whārangi kei muri i te pukapuka nei, ka āta tohu ai i ngā tau pātai.

Tirohia mehemea kei roto nei ngā whārangi 2–17 e raupapa tika ana, ā, kāore hoki he whārangi wātea.

HOATU TE PUKAPUKA NEI KI TE KAIWHAKAHAERE HEI TE MUTUNGA O TE WHAKAMĀTAUTAU.

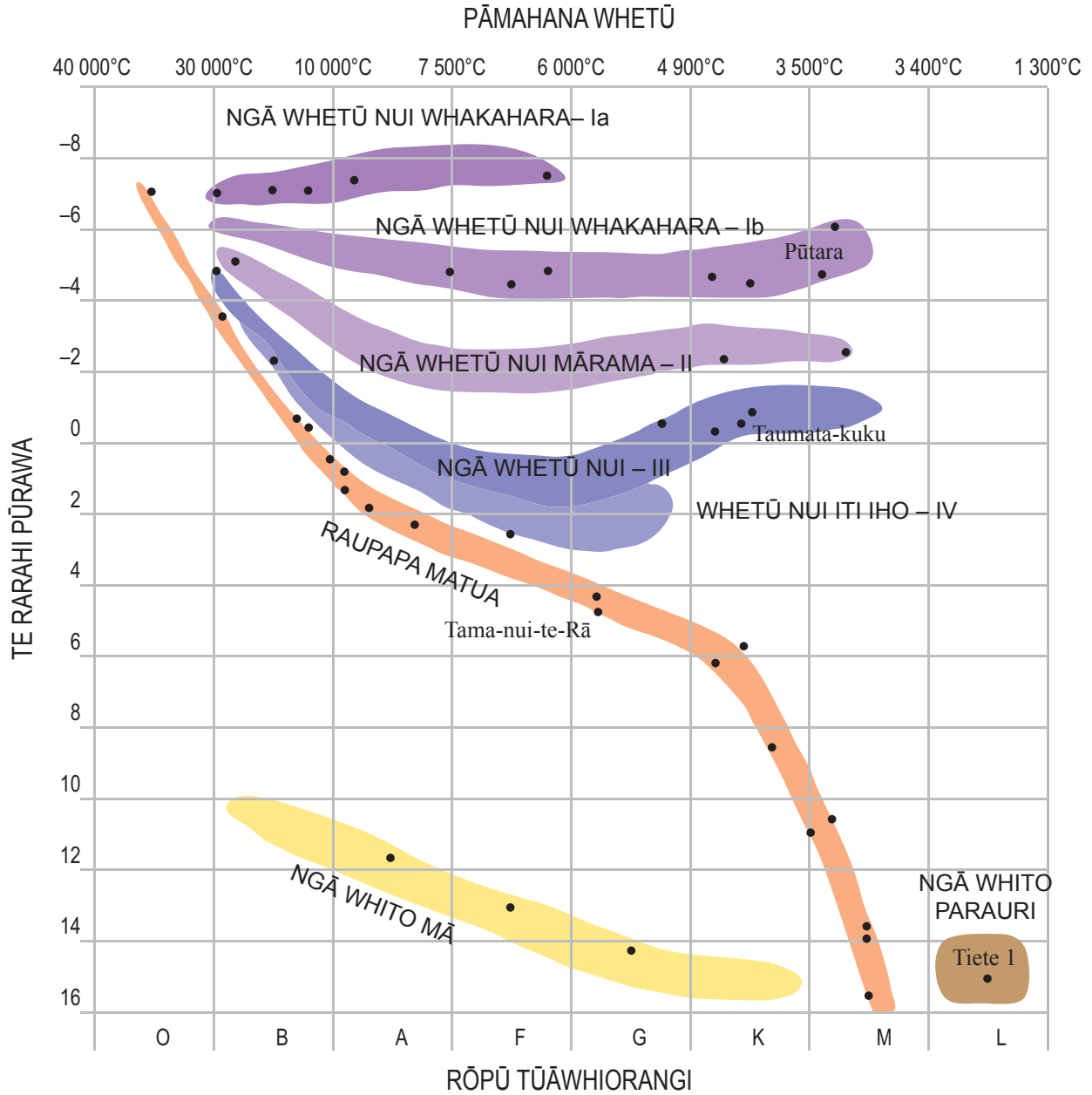
TAPEKE

MĀ TE KAIMĀKA ANAKE

Kia 60 meneti hei whakautu i ngā pātai o tēnei pukapuka.

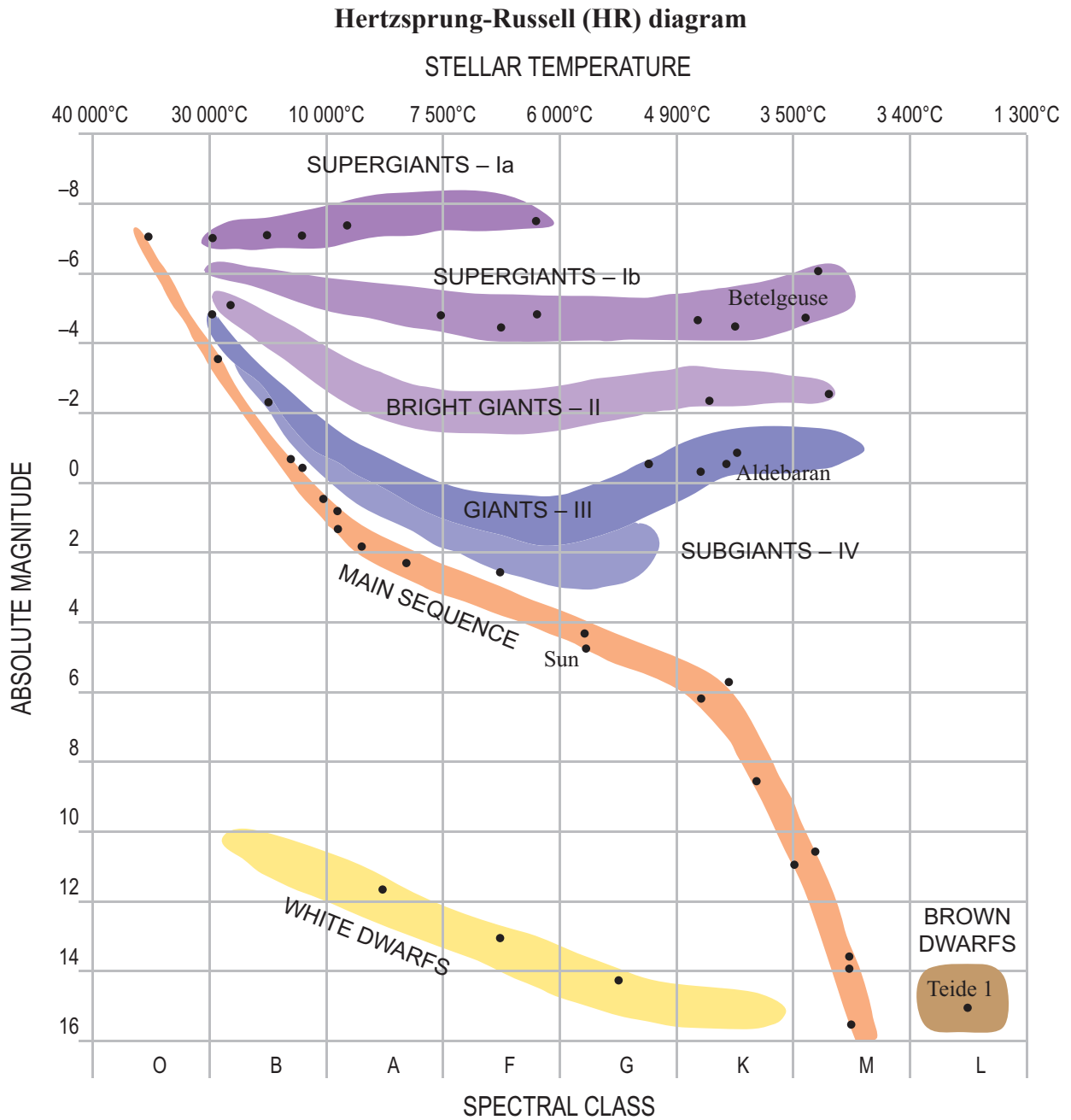
RAUEMI

Hoahoa Hertzsprung-Russell (HR)



You are advised to spend 60 minutes answering the questions in this booklet.

RESOURCE



PĀTAI TUATAHI: TAUMATA-KUKU: HE WHETŪ WHERO TINO NUI

He whetū whero tino nui a Taumata-kuku tata ki te 40 whakareanga ake tōna rahi i tō Tama-nui-te-Rā.

Whakamahia te hoahoa HR i te whārangi 2 hei āwhina ki te whakamārama ā-taipitopito ia wāhanga oranga (whānautanga, oranga, me te matenga) i roto i te mataora o Taumata-kuku.

I tō whakautu me kōrero koe mō:

- te tō-ā-papa
- te papatipu
- te puna kora me te whakamahi
- ngā huringa pūngao.

He tapu tēnei rauemi. E kore taea te tuku atu. Aata tirohia ki ngā kupu kei raro iho i te pouaka nei.

<http://www.janis.or.jp/users/kitahara/sww/e-arude-z.html>

English translation of the wording on the front cover

Level 2 Earth and Space Science, 2013

91192 Demonstrate understanding of stars and planetary systems

2.00 pm Tuesday 26 November 2013

Credits: Four

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of stars and planetary systems.	Demonstrate in-depth understanding of stars and planetary systems.	Demonstrate comprehensive understanding of stars and planetary systems.

Check that the National Student Number (NSN) on your admission slip is the same as the number at the top of this page.

You should attempt ALL the questions in this booklet.

If you need more space for any answer, use the page(s) provided at the back of this booklet and clearly number the question.

Check that this booklet has pages 2–17 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.