

# 2019 KRONOSAURUS KORNER SCHOOL CHALLENGE

Before your team begins work on these five tasks make sure you study the three assessment forms. They will tell you how to grade your team's work, how your teacher will grade your work and how the KK judges will grade your team's report. This will help you be more successful working on these tasks.

## 1. THE SORTING TASK

Here are 20 things that lived in the Cretaceous Period 100 million years ago.

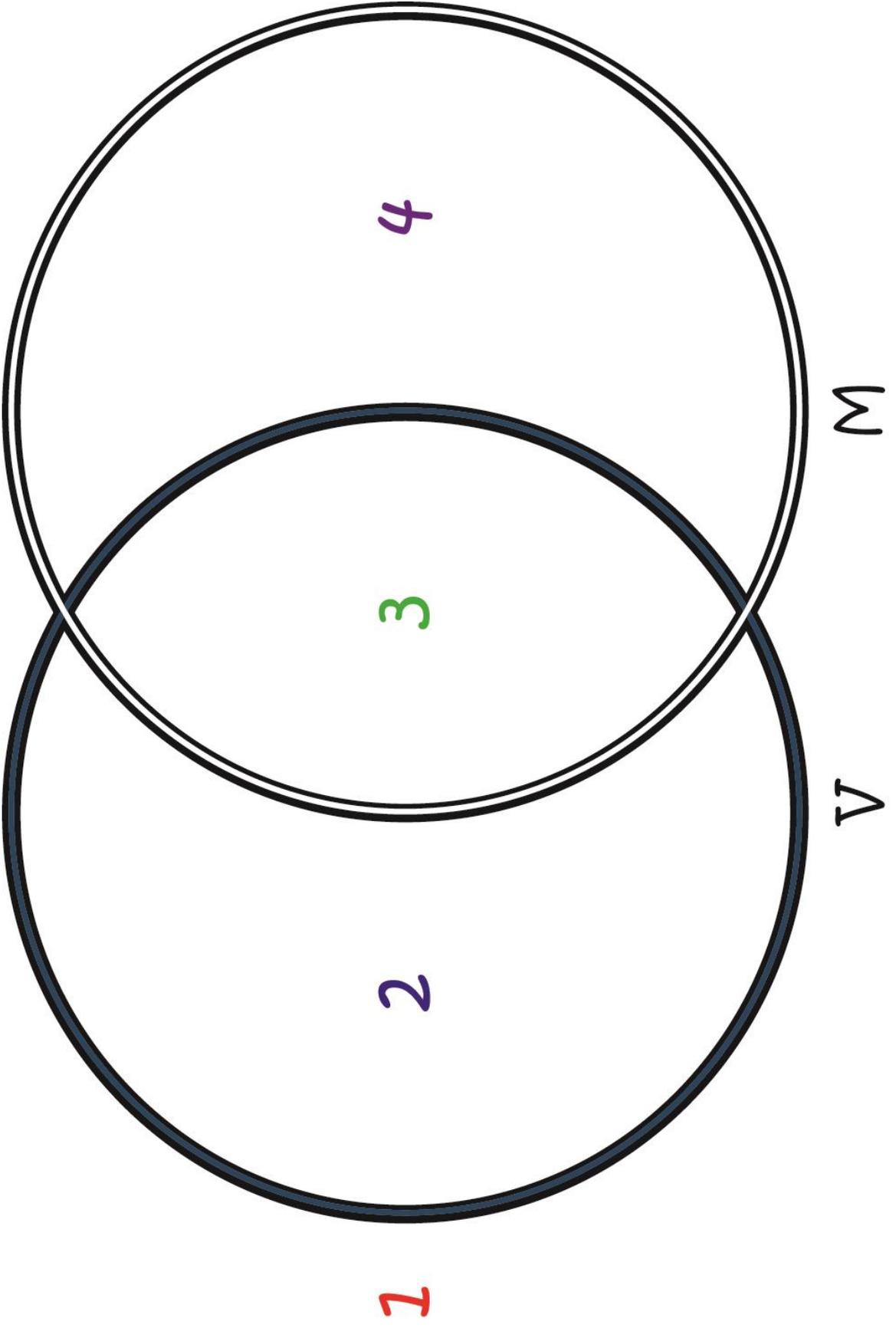
Star Fish	<i>Notochelone</i>	<i>Austrosaurus</i>	Sponge
Shark	<i>Kunbarrasaurus</i>	Shrimp	Pine Tree
Ammonite	Pterosaur	Polycotylid	<i>Kronosaurus</i>
Squid	Clam	<i>Cooyoo</i>	Chimaeroid
Crocodile	Bird	Echinoid	Dragonfly

Sort them using these two rules:

If it's a vertebrate animal (has a backbone) put it inside Circle V.

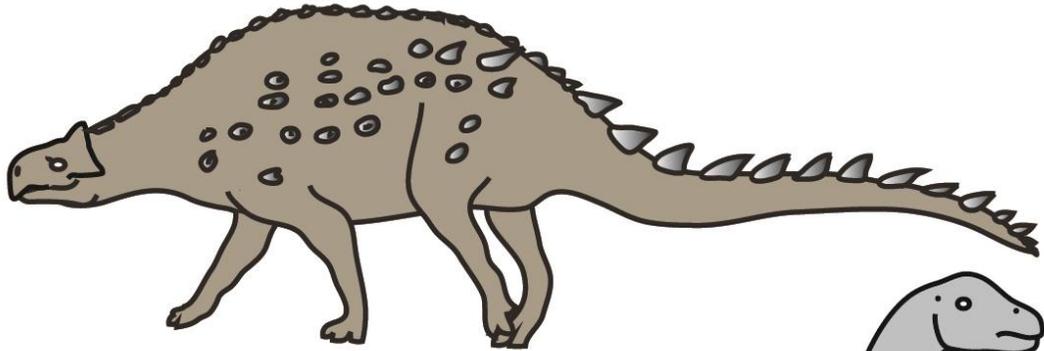
If it lived in the sea (a marine creature) put it inside Circle M.

Refer to the diagram below. In which region 1, 2, 3 or 4 should each be placed?

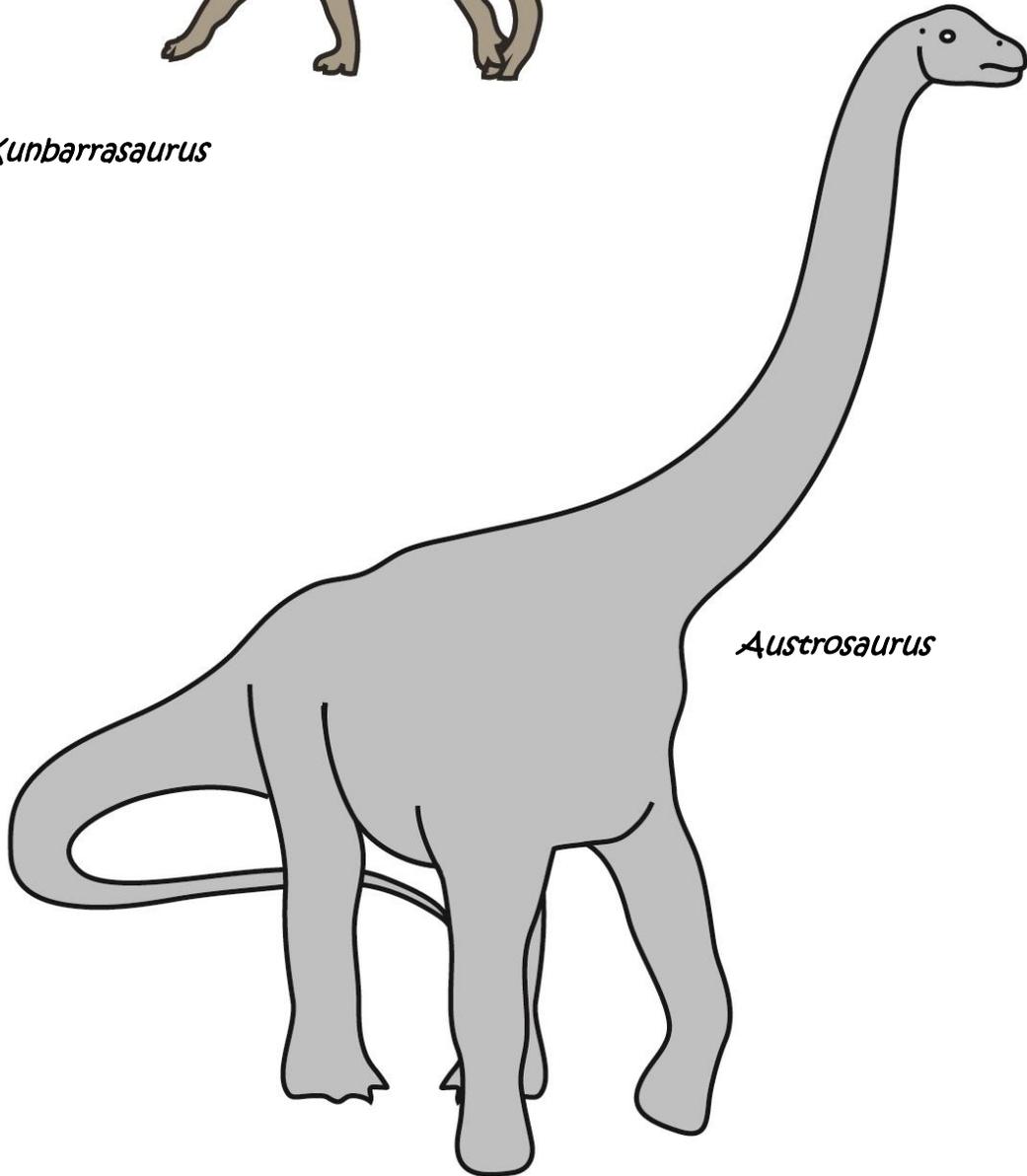


2. *THE EATING TASK*

Who would have eaten more in a day, ten *Kunbarrasaurus* or one *Austrosaurus*?



*Kunbarrasaurus*



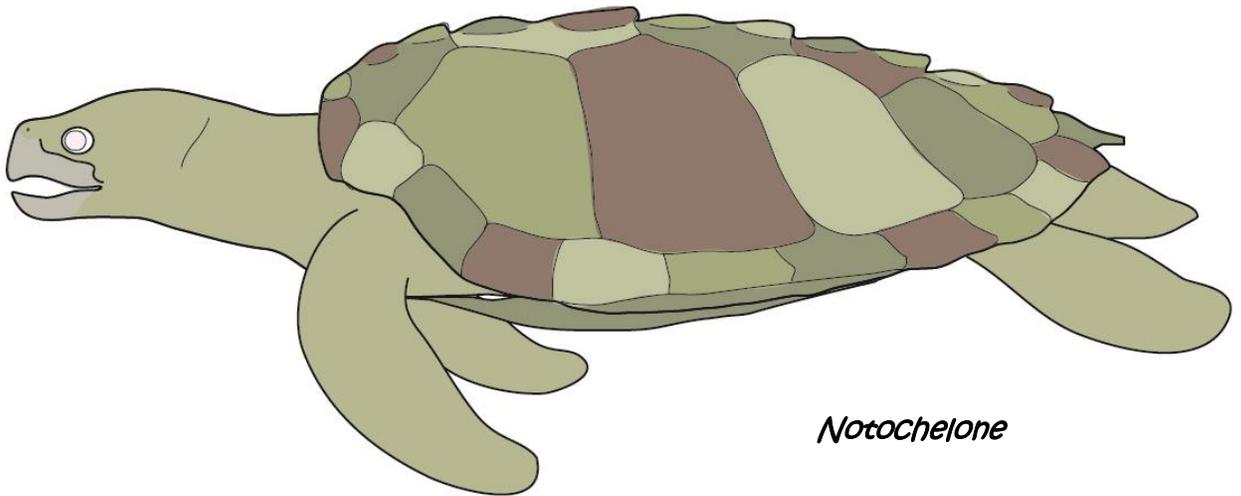
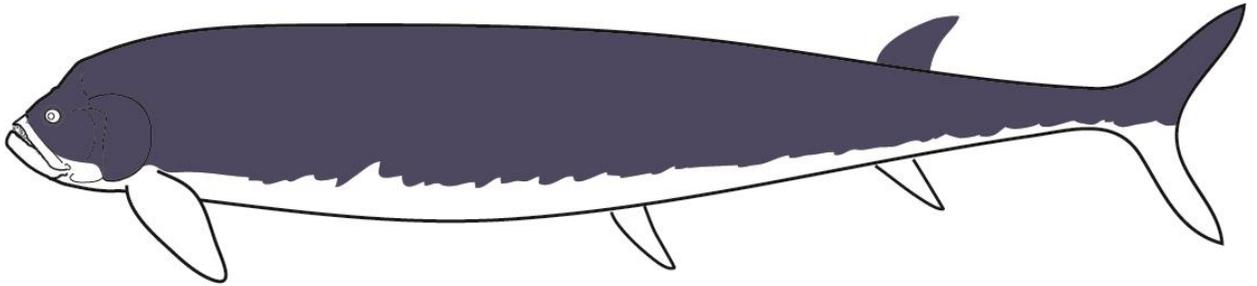
*Austrosaurus*

Drawings not to scale.

3. **THE WEIGHT TASK**

Who would have weighed more, an adult *Cooyoo* fish or an adult *Notochelone* turtle?

*Cooyoo*



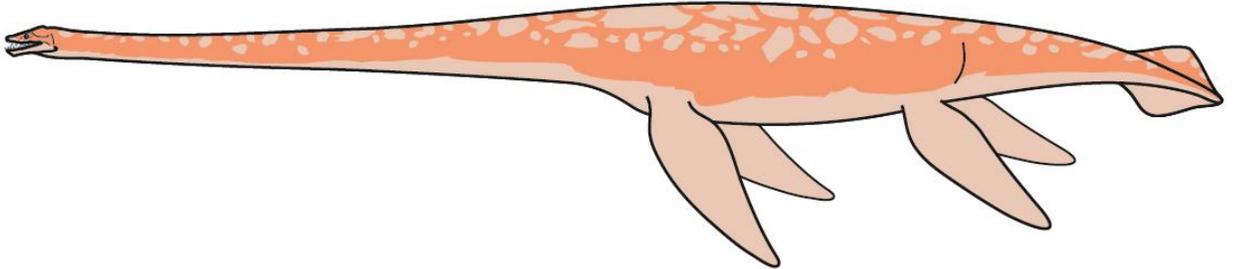
*Notochelone*

Drawings not to scale.

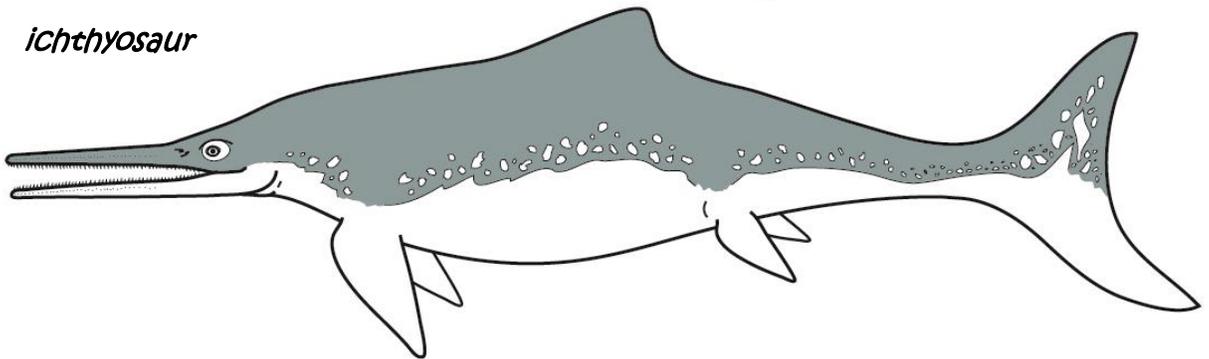
4. **THE SPEED TASK**

Who would have been the faster swimmer, an ichthyosaur or an elasmosaur?

*elasmosaur*



*ichthyosaur*

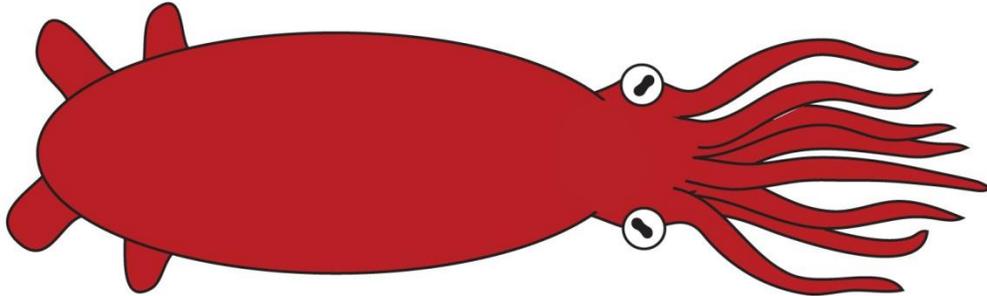


Drawings not to scale.

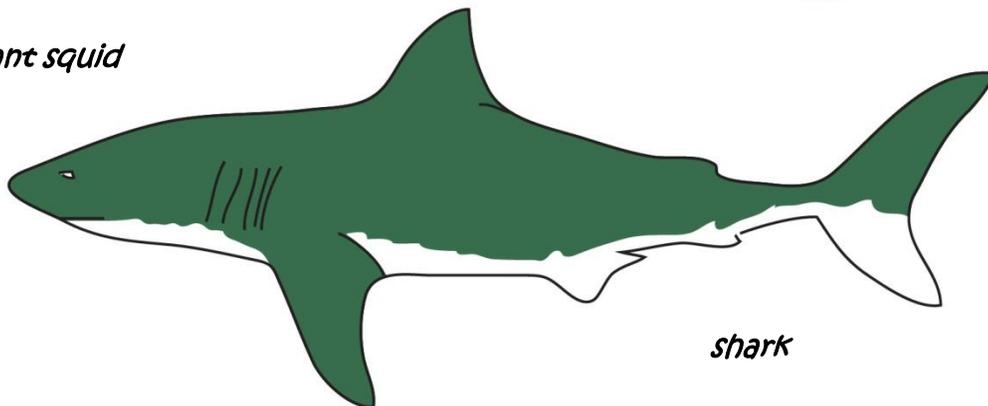
5. *THE SWIMMER TASK*

Imagine you are swimming in the Eromanga Sea 100 million years ago! Which one of these creatures would likely pose the greatest danger to you?

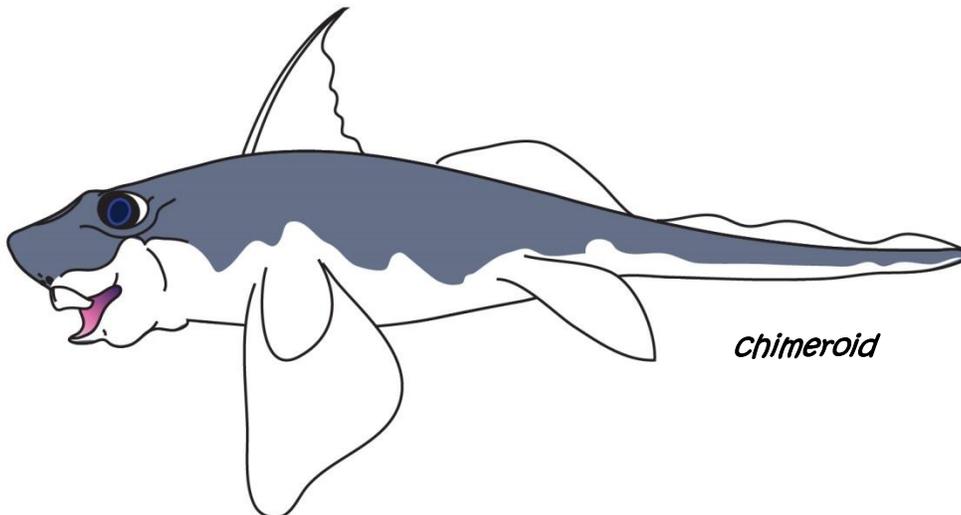
Shark, chimaeroid, elasmosaur, giant squid or ichthyosaur?



*Giant squid*



*shark*



*chimaeroid*

Drawings not to scale.

# 2019 KRONOSAURUS KORNER SCHOOL CHALLENGE

## How Did We Do? (TEAM SELF-ASSESSMENT FORM)

SCHOOL \_\_\_\_\_

Team (circle one) Gr 5-6 Gr 7 Gr 8-9

TEAM MEMBERS (print)

\_\_\_\_\_

\_\_\_\_\_

### Our Team's Score

1. We made good plans for handling each of the 5 tasks. \_\_\_\_\_ / 10
2. We made good use of resources like the internet to find information and evidence to successfully complete each task. \_\_\_\_\_ / 30
3. We double-checked our numbers & calculations in Task 2 for accuracy. \_\_\_\_\_ / 10
4. We provided lots of evidence and reasons to support our conclusions in Tasks 2, 3, 4 and 5. \_\_\_\_\_ / 30
5. We checked our draft report for spelling, grammar, accuracy, completeness and attractiveness. \_\_\_\_\_ / 10
6. Each team member contributed to the team effort. \_\_\_\_\_ / 5
7. Our team enjoyed this year's Challenge. \_\_\_\_\_ / 5

Total \_\_\_\_\_ / 100

# 2019 KRONOSAURUS KORNER SCHOOL CHALLENGE

## TEACHER ASSESSMENT FORM

SCHOOL: \_\_\_\_\_ TEACHER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CONTACT: Tel \_\_\_\_\_ e-mail \_\_\_\_\_

TEAM LEVEL (circle one) Junior Gr 5-6 Intermediate Gr 7 Senior Gr 8-9

TEAM MEMBERS (print) 1 \_\_\_\_\_

2 \_\_\_\_\_ 3 \_\_\_\_\_

4 \_\_\_\_\_ 5 \_\_\_\_\_

Start Date \_\_\_\_\_ Completion Date \_\_\_\_\_

1. Team came up with a good plan of attack. \_\_\_\_\_ / 8
2. Team members displayed effective research skills. \_\_\_\_\_ / 8
3. Team made reasonable estimates and assumptions. \_\_\_\_\_ / 8
4. Team was self-directed throughout the Challenge. \_\_\_\_\_ / 8
5. All members of this team made positive contributions. \_\_\_\_\_ / 8
6. Team members demonstrated good interpersonal skills. \_\_\_\_\_ / 8
7. Team demonstrated creativity. \_\_\_\_\_ / 8
8. Team demonstrated good problem solving abilities. \_\_\_\_\_ / 8
9. Team edited and refined their draft report. \_\_\_\_\_ / 8
10. Team members demonstrated good communication skills. \_\_\_\_\_ / 8
11. Team report is complete. \_\_\_\_\_ / 8
12. This team (and teacher) enjoyed the Challenge. \_\_\_\_\_ / 12

TOTAL \_\_\_\_\_ / 100

Comments? Suggestions for improving this 'Challenge'? Use separate page

# 2019 KRONOSAURUS KORNER SCHOOL CHALLENGE

## Judge's Assessment Form

1. All 5 Tasks well-researched \_\_\_ / 40
  2. Reasonable assumptions and estimates used \_\_\_ / 20
  3. Task 2 arithmetically correct \_\_\_ / 20
  4. Convincing, well-reasoned conclusions \_\_\_ / 40
  5. Report well-organized and communicated \_\_\_ / 40
  6. Complete and comprehensive report \_\_\_ / 20
  7. Submission was interesting and entertaining \_\_\_ / 20
- TOTAL \_\_\_ / 200

# 2019 KRONOSAURUS KORNER SCHOOL CHALLENGE

## IMPORTANT CONTACT TEACHER INFORMATION

### THE 2019 CHALLENGE

Thank you for taking an interest in this year's Challenge. We hope you and your students will find the Challenge a unique and valuable learning experience. It is designed to be challenging, different and most of all, fun.

This year's Challenge is made up of 5 different tasks. The task in each part is designed to appeal to a range of students. A wide range of outcomes are possible and anticipated. That is why the same Challenge is to be presented to Junior (Gr 5-6), Intermediate (Gr 7) and Senior (Gr 8-9) teams.

### GETTING STARTED

You may start the Challenge whenever you wish.

Teams must submit their work to you no more than one month after starting the Challenge.

## HOW TEAMS OPERATE

To maximize interaction, a team can have no fewer than 3 members and no more than 5 members.

It is expected that a team will work collaboratively on all 5 tasks in the Challenge and produce a single (team) submission for each task. It is expected that team members will decide how they will organize themselves to work on the tasks and produce their joint submission for each task. You, or another teacher or other teachers, can facilitate this.

It is left to you and your students to decide how each team operates. You may wish to run several meetings at lunch times, or after school like a club. Team members may wish to take on specific tasks as home assignments. Team members should feel free to carry out any research they deem necessary. Students should feel free to seek feedback on their ideas from non-team members. It is important however, that a team's submission be created by team members only, using strategies, results and formats agreed to by the team.

## ASSESSMENT

School submissions will be assessed by team members themselves, by you the teacher and thirdly by judges at Kronosaurus Korner.

It is important that team members be made aware of how their work will be other-assessed and self-assessed **BEFORE** they start the Challenge. This knowledge should help them shape how they work and make their efforts more productive.

That is why each team should be given copies of the three supplied assessment rubrics along with the 2019 Challenge tasks. Notice that a team will submit a mark out of 100, the teacher a mark out of 100 and the judges at 'KK' a mark of 200.

## SUBMISSIONS

You are responsible for e-mailing your team(s) submissions and the completed assessment sheets to [manager@kronosauruskorner.com.au](mailto:manager@kronosauruskorner.com.au)

Mail them at a time that is convenient to you, but no later than October 18, 2019.

Remember, submit only the work of one team for each level participating in the Challenge.

## FEEDBACK

Museum officials will e-mail your team(s) results, along with some feedback for your team members.

We encourage you to give us feedback on how the Challenge worked in your school along with suggestions for improving future Challenges.

Any questions? Contact [manager@kronosauruskorner.com.au](mailto:manager@kronosauruskorner.com.au)

Enjoy the Challenge!