

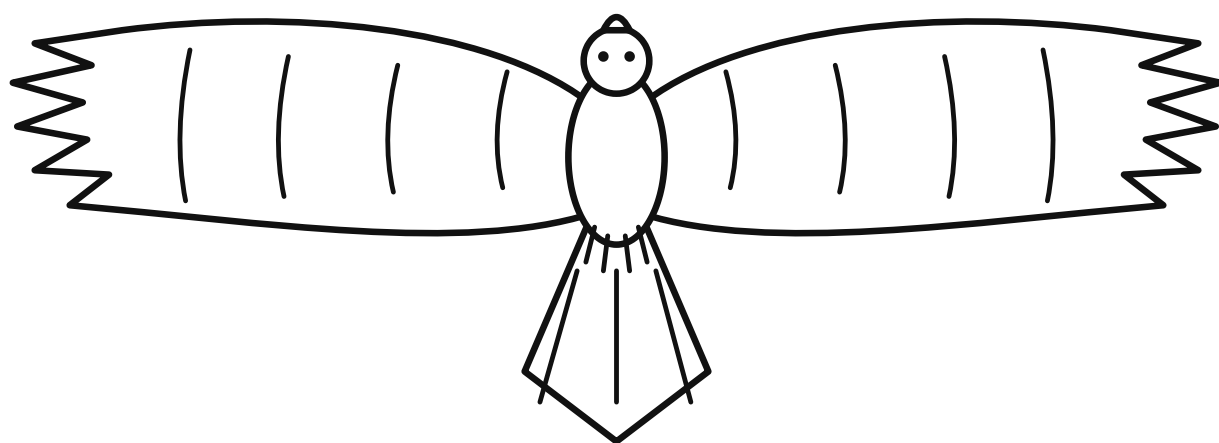


Printable pack
Year 3 to Year 12
No internet needed

AI FIRST NATIONS · DRONE KNOWLEDGE ON COUNTRY

NGARRAKAN NGARDIJI

NGARRAKAN, THE WEDGE-TAILED EAGLE · NGARDIJI, WISDOM AND VISION



1 · Teacher guide and lesson plan

2 · Ngarrakan's 8 drone rules

3 · Colour-in: sharing the sky

4 · Colour-in: Kiki and KK

5 · Eagle and drone: parts match-up

6 · Quiz: Year 3 to 6

7 · Quiz: Year 7 to 12

8 · Quiz answers

9 · Certificate

Created by John Fejo, Founder & Chief Remote Pilot, AI First Nations · CASA ReOC CASA.ReOC.8979 · Darwin, Larrakia Country. Rules follow the Civil Aviation Safety Authority (CASA) drone safety rules. This pack goes with Drone Class 101 to 501. It does not replace them.



PAGE 1 • FOR TEACHERS AND ELDERS

TEACHER GUIDE

NgarraKAN Ngardiji teaches drone safety and drone knowledge through Country. NgarraKAN, the wedge-tailed eagle, sees far, flies high and shares the sky. Students learn the CASA drone rules by learning how NgarraKAN watches over Country. Every page works on paper: no computer, iPad or internet needed.

WHO IT'S FOR

Year 3 to 6: colour-in, match-up, primary quiz. Students fly the small DJI Neo with the instructor, one at a time.

Year 7 to 12: all pages plus the secondary quiz and the yarn questions.

WHAT YOU NEED

Printed pages • pencils and crayons • cones or rope to mark a 30 m line • DJI Neo drone and batteries (instructor) • first aid kit.

LESSON PLAN • ABOUT 60 MINUTES

Time	What happens	Page
5 min	Acknowledgement of Country. Invite a local Elder or ranger to welcome the group and share the local name for the wedge-tailed eagle.	—
10 min	Yarn: How does NgarraKAN look after Country? It sees a long way, flies high, never crashes into others, and stays away from danger. A drone pilot must do the same.	Cover
10 min	NgarraKAN's 8 drone rules. Read each rule together. Walk out the 30 m line with cones so students can see how far it is.	2
15 min	Colour-ins and eagle-and-drone match-up. Students colour NgarraKAN with the colours of their own Country, and meet the Pilot and the Spotter.	3, 4, 5
10 min	Quiz. Mark it together using the answer page.	6, 7, 8
10 min	Certificate. Instructor signs and hands out. If flying is planned, run the Drone Class 101 pre-flight checklist and practical.	9

WHERE IT FITS

NgarraKAN Ngardiji is the paper companion to **Drone Class 101 to 501**. It covers the knowledge in 101 (First Flight) and 102 (Safe Flight). Older students then move on to 201 Imaging, 301 Mapping, 401 AI & Data and 501 Careers.

CULTURE AND COUNTRY

Use local language names for animals and places where Elders agree. Fly only where Traditional Owners have given permission. No photos of sacred sites or of people who haven't agreed.

CASA ALIGNMENT

Drones in AI First Nations classes are flown under the AI First Nations Remote Operator Certificate (ReOC CASA.ReOC.8979), with the instructor in charge. Students under 16 always fly under supervision. CASA's rules for schools: keep the drone in sight, no higher than 120 m, at least 30 m from other people, never fly in a way that creates a hazard, and check for no-fly zones first. Source: CASA, knowyourdrone.gov.au.



NGARRAKAN'S 8 DRONE RULES

1

Keep your drone where you can see it

NgarraKAN never takes its eyes off what it is watching. Always see your drone with your own eyes.

2

Fly no higher than 120 metres

The high sky is shared with planes and helicopters. Drones stay low, under 120 m.

3

Stay at least 30 metres from people

Give everyone space, like an eagle keeps its distance. Walk the 30 m line to see how far it is.

4

Never fly over people or crowds

No flying over beaches, parks, sports games or camps full of people.

5

Fly in daylight only

NgarraKAN hunts by day. We fly by day too, in good weather, with no rain or strong wind.

6

Stay away from airports and emergencies

Keep clear of airports, helicopters, bushfires and rescues. Always give way to aircraft with people on board.

7

Respect animals and Country

Never chase or annoy wildlife. Wedge-tailed eagles really do attack drones! Fly only where Traditional Owners say yes.

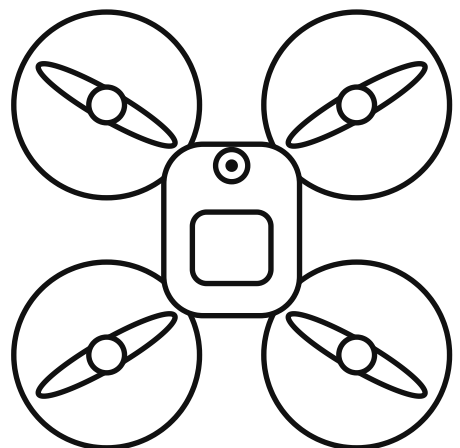
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Respect people's privacy

Don't film people or their homes without asking. What you see from the sky belongs to the people and to Country.

DID YOU KNOW?

The wedge-tailed eagle is Australia's biggest bird of prey. Its wings can stretch more than 2 metres, and it can soar higher than 1,800 metres. It sees more than twice as sharply as we do.



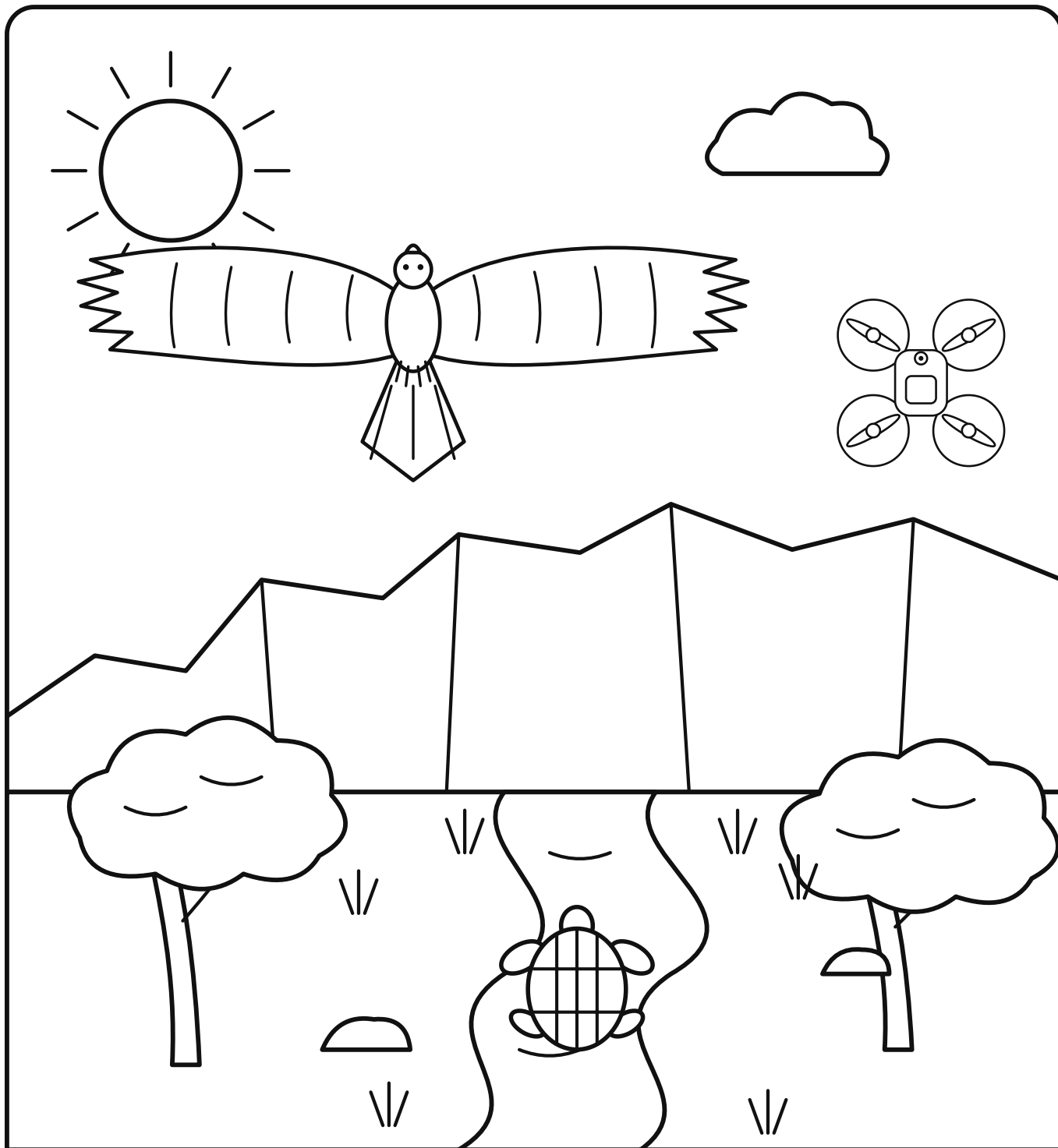
Before every flight: check a CASA-verified drone safety app for no-fly zones, check the weather, and do the pre-flight checklist with your instructor. Any "no" means no-go.



PAGE 3 • COLOUR-IN
SHARING THE SKY

Name: _____

Year: _____



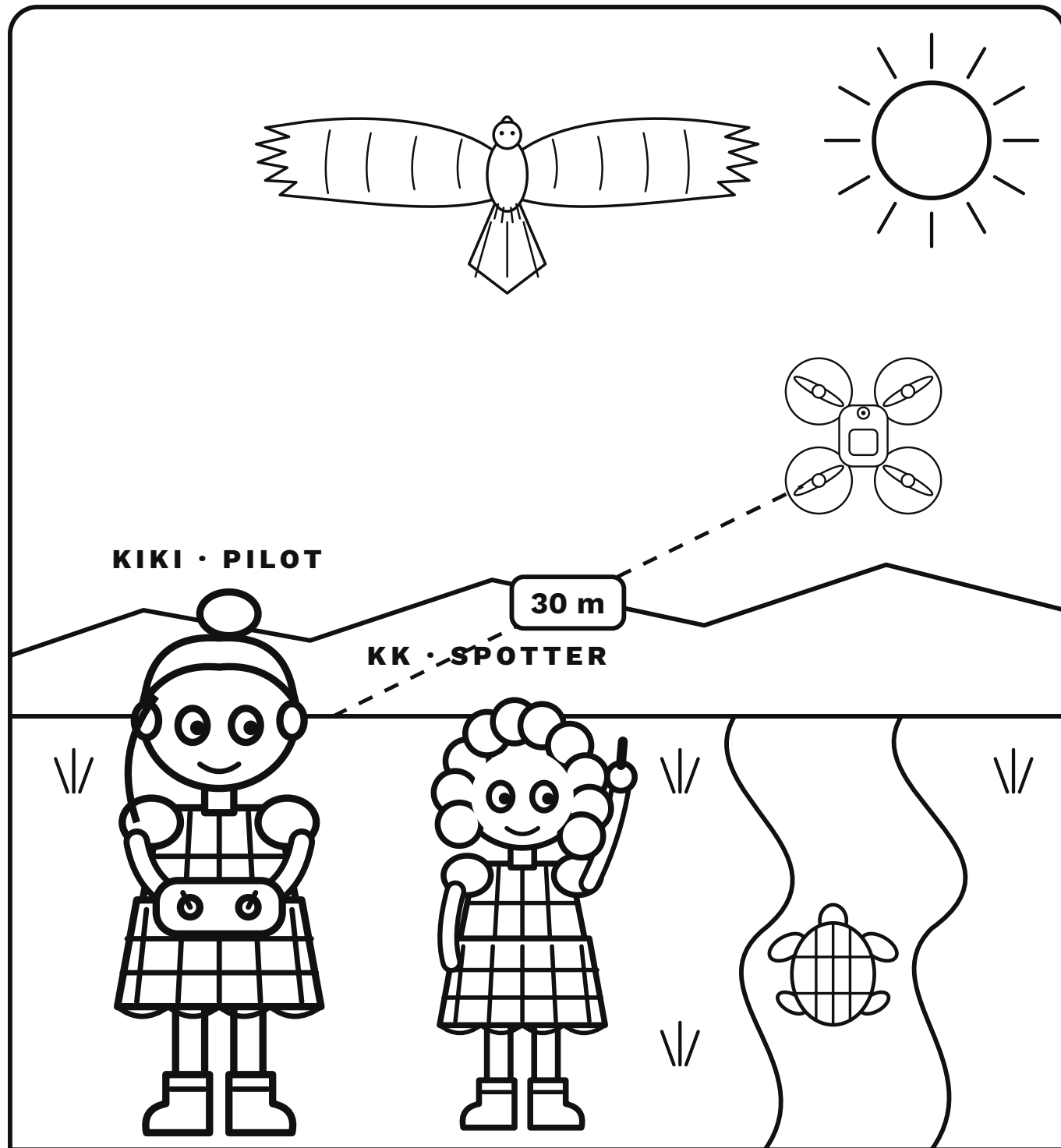
Colour Ngarrakan, the drone and Country. Use the colours of **your** Country, and add the animals and plants that live there. **Look:** the drone keeps its distance from Ngarrakan. That's rule 7.



KIKI AND KK: PILOT AND SPOTTER

Name: _____

Year: _____



Every drone flight has a crew. **Kiki** is the Pilot: she flies the drone and keeps it in sight. **KK** is the Spotter: she watches the sky for Ngarrakan, birds and aircraft, and calls "STOP" if anything is unsafe. Their Pop Pop is the instructor. The drone flies over Country, at least **30 metres** from everyone else.

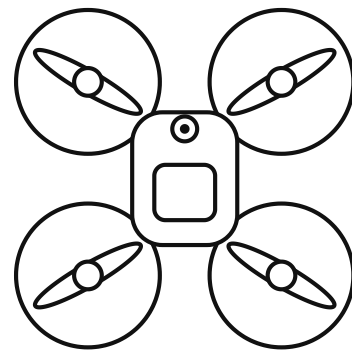
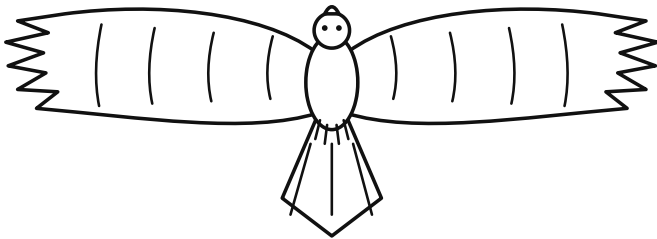


PAGE 5 • MATCH-UP EAGLE AND DRONE

Name: _____

Year: _____

Ngarrakan and a drone both fly, so they need some of the same parts. **Draw a line** from each part of the eagle to the drone part that does the same job. Then colour both pictures.



NGARRAKAN

Eyes •

Wings •

Heart •

Tail •

Feet and talons •

Brain •

DRONE

• Battery: gives the drone its energy

• Landing legs: touch down safely

• Camera: sees the ground below

• Flight controller: the drone's thinking part

• Propellers: lift it into the sky

• Sensors and GPS: help it balance, steer and find home

Yarn about it: What can Ngarrakan do that a drone can't? What can a drone do that helps rangers care for Country?



PAGE 6 • YEAR 3 TO 6
DRONE QUIZ

Name: _____

Year: _____

Tick one box for each question.

1. How high can a drone fly?

- ☐ No higher than 120 metres ☐ As high as the clouds
☐ As high as an eagle

2. How far must a drone stay from people?

- ☐ 5 metres ☐ At least 30 metres ☐ It doesn't matter

3. When can you fly a drone?

- ☐ At night ☐ In daylight ☐ In a storm

4. You must always be able to ___ your drone.

- ☐ hear ☐ see ☐ touch

5. A wedge-tailed eagle flies at your drone. What do you do?

- ☐ Chase it ☐ Fly closer for a photo
☐ Fly away and land safely

6. Can you fly over a crowd of people?

- ☐ Yes ☐ No

7. Which drone part works like Ngarrakan's eyes?

- ☐ Battery ☐ Camera ☐ Propellers

8. Who should you ask before flying over a special place on Country?

- ☐ Traditional Owners ☐ Nobody ☐ Your friend



PAGE 7 • YEAR 7 TO 12
DRONE QUIZ

Name: _____

Year: _____

Tick one box for each question.

1. What is the maximum height for most drone flights in Australia?

- ☐ 60 m ☐ 120 m ☐ 400 m

2. What is the minimum distance from other people?

- ☐ 10 m ☐ 30 m ☐ 100 m

3. 'Visual line of sight' means:

- ☐ You can see the drone with your own eyes
☐ You can see the camera feed on the screen ☐ Someone else can see it

4. Near a controlled airport (within 5.5 km), which drones may usually fly without extra approval?

- ☐ Drones 250 g or less, away from the flight paths ☐ Any drone
☐ Only big drones

5. If you are paid to fly a drone of 2 kg or less, you need:

- ☐ Nothing ☐ Operator accreditation and a registered drone ☐ A car licence

6. From what age can you get CASA operator accreditation?

- ☐ 12 ☐ 16 ☐ 21

7. A helicopter arrives while you're flying. You should:

- ☐ Keep flying ☐ Climb higher ☐ Give way and land

8. AI First Nations flies under a ReOC. What is a ReOC?

- ☐ A Remote Operator Certificate from CASA ☐ A drone brand
☐ A type of battery

9. Why do we ask Traditional Owners before flying on Country?

- ☐ Data and images from Country belong to them, and some places are sacred
☐ It isn't needed ☐ To get free batteries

10. Which is a safe choice when a wedge-tailed eagle is nearby?

- ☐ Hover to film it ☐ Fly towards it ☐ Move away and land



PAGE 8 • FOR TEACHERS
QUIZ ANSWERS

YEAR 3 TO 6

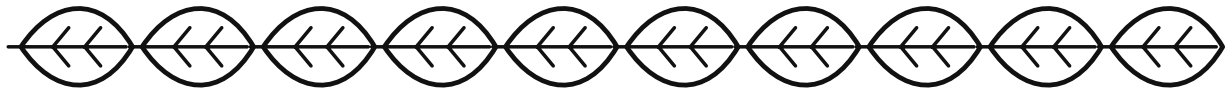
1	No higher than 120 metres
2	At least 30 metres
3	In daylight
4	see
5	Fly away and land safely
6	No
7	Camera
8	Traditional Owners

YEAR 7 TO 12

1	120 m
2	30 m
3	You can see the drone with your own eyes
4	Drones 250 g or less, away from the flight paths
5	Operator accreditation and a registered drone
6	16
7	Give way and land
8	A Remote Operator Certificate from CASA
9	Data and images from Country belong to them, and some places are sacred
10	Move away and land

Match-up answers (page 5): Eyes → Camera · Wings → Propellers · Heart → Battery · Tail → Sensors and GPS · Feet and talons → Landing legs · Brain → Flight controller.

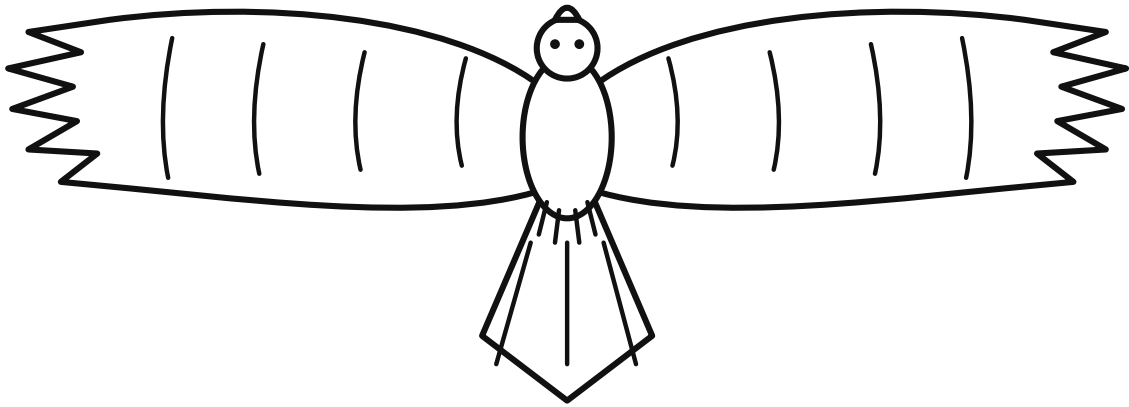
Accept other answers if students explain them well. For example, the tail also steers like the propellers do.



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NGARRAKAN NGARDIJI

CERTIFICATE OF DRONE KNOWLEDGE



This certifies that

has learned Ngarrakan's 8 drone rules and how drones help care for Country,
following the Civil Aviation Safety Authority (CASA) drone safety rules.

School or community

Date

John Fejo, Founder & Chief Remote Pilot
AI First Nations • CASA ReOC
CASA.ReOC.8979

Teacher, Elder or ranger

