FOREST LEARNING

SHE MAPS

DRONES IN FORESTRY

CASE STUDY
Student Response Booklet

www.shemaps.com

Sarah Maddison - Case Study

NAME: _____

1. What is a Geographic Information System (GIS)?

2. Explain how Sarah Maddison uses GIS to assist her in forestry.

3. What is a UAV? Explain how Sarah uses UAVs to assist her in forestry.

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Sarah Maddison - Case Study

NAME: _____

4. What is Sarah's current project?

5. How did Sarah get into forestry?

6. What is Sarah's favourite thing to do in the forest?

7. What is a UAV? Explain how Sarah uses UAVs to assist her in forestry.

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Sarah Maddison - Case Study

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8. What features does she like best about her drone? Why?

9. What is Sarah's biggest hazard when flying her drone?

10. How does Sarah plan her drone flights?

11. When does Sarah fly manually?

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12. What does the information from the drones help the foresters to do?

13. What is stockpile analysis and why is it used?

14. What is LiDAR and what is it used for?

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Sarah Maddison - Case Study

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15. Sarah uses thermal infrared technologies. Why and why is this important?

16. Why are top-down photos of trees so important?

17. Sarah told us about her favourite project. What technologies were combined and why was this information useful for harvester operators?

18. Sarah told us that drones are used to access difficult to reach parts of the forest to keep workers safe. Explain why modern technologies help foresters to address competing considerations as they survey the forests.

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Sarah Maddison - Case Study

NAME: _____

Biography

Compile the answers to your questions in a biography to tell a story of a day in the life of Sarah Maddison, planning forester. Develop further questions to help you locate any information you still need and research answers on the internet. Find and create suitable maps (with compass direction included) and images of forests and digital systems to illustrate your story. Include tables to collate forest data as you describe where Sarah works and what she does.

You may present your biography as a slideshow, magazine feature article or narrated video with supporting imagery.

Use this space to help with your planning.

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THANK YOU!

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We hope that you love our resources, and that you are excited for what we will release next! To see more She Maps resources check out our Teacher resources page.

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WHAT DO YOU NEED?

We're always looking for recommendations for topics or themes for drone and geospatial teaching resources. If you've got something in mind, then please email

programs@shemaps.com

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