Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Adaptations for Survival**: Using the “Characteristics and Classification of Living Things” workbook, answer the following question. *Please answer in full sentences.*

1. List and describe three adaptations for survival that are discussed in case study 8.
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. The Peppered Moth:
6. Why do you think the light variety was originally found in greater numbers?

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1. Which variety has better camouflage in a polluted environment? Explain.

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1. Predict what would happen to the peppered moths once the bark on most trees was covered with soot.

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1. Plants that Look Like Rocks:
2. What adaptive advantage does the plant get by hiding?

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1. What might the plants be hiding from?

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1. Insects that look like plants:
2. Draw a diagram showing the peppered moth caterpillar.
3. How does the behaviour of the caterpillar help provide camouflage?

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1. Explain why the camouflage of the walking stick not only prevents it from being eaten, but also makes it a more effective predator.

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1. Animals in Hiding:
2. Explain why the tiger’s colouration makes it well-suited for lurking about the swamps of Asia, rather than the plains of Africa.

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1. The sargassum is very difficult to find in the picture. Try your best to make out its shape and draw it bellow.
2. The bittern raises its head and looks straight up whenever a predator comes too close. Why does the bird raise its head?

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1. Organisms in Disguise:
2. Why would birds avoid animals that have large eyes in the front of their head?

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1. What type of animal might a bird think this caterpillar is?

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1. Plant Tricks:
2. Why would plants attempt to attract insects?

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1. Fishy Tactics:
2. How else is the frogfish adapted for feeding on fish?

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Case Study Questions:

1. Explain why male birds often have brilliantly coloured feathers, when the females of the same species are less colourful.

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1. The skunk has distinctive black and white stripes running along its body. What adaptive advantage does it gain by this colouration?

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