

Water Quiz Sheet –

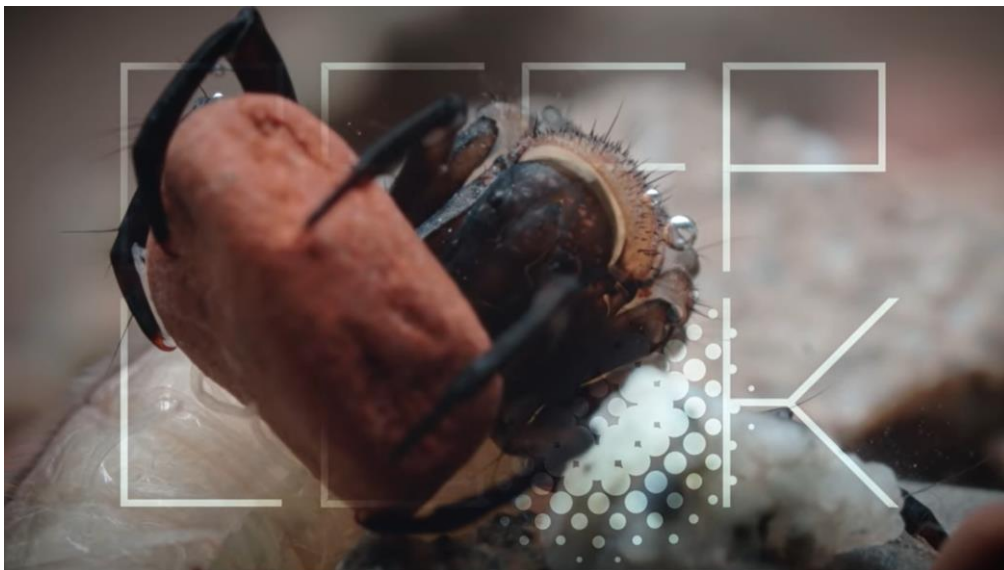
Sticky. Stretchy. Waterproof. The Amazing Underwater Tape of the Caddisfly



The below video called 'Sticky. Stretchy. Waterproof. The Amazing Underwater Tape of the Caddisfly' lasts for 3 minutes 40 seconds and is part of the 'Deep Look' short video series created by KQED San Francisco and presented by PBS Digital Studios.



What do you do if you are a tiny caddisfly larva growing up in a torrent of water and debris? Simple. You build a shelter out of carefully selected pebbles and some homespun waterproof tape.



<https://www.kqed.org/science/891330/sticky-stretchy-waterproof-the-amazing-underwater-tape-of-the-caddisfly>

Instructions:

Watch the clip and give yourself the quiz (see questions on page 2) or do it as a group at home or online with a school group. If you do it as a group, choose someone to read out the questions.

Only go to page 4 when you are ready to correct the completed quiz answer sheet on page 3.

Questions:

1. What covers the rocks under water?
2. What does the water bug do to survive the powerful currents and debris?
3. What type of larva is the video looking at?
4. What tool has it evolved (developed) that people have yet to create?
5. As winged adults what are caddisflies a favourite food of?
6. What covers the head and legs of the caddisfly larva?
7. Why does the caddisfly build a case?
(3 reasons are listed, give 1 point for each answer)
8. What is in a gland under the larva's chin?
9. What is the ribbon of silk like?
10. If surgeons used a similar tape what could it be used to replace?

Answer Sheet:

Q	Answer
Q 1.	
Q 2.	
Q 3.	
Q 4.	
Q 5.	
Q 6.	
Q 7.	1) 2) 3)
Q 8.	
Q 9.	
Q 10.	

Answers:

1. Algae
2. It builds a shelter
3. The caddisfly
4. Tape that stays sticky underwater
5. Trout
6. Insect armour or chitin
7. Ballast (balance), protection and camouflage
8. Tape (silk that acts like tape)
9. A rubber band (it can stretch to twice its size and return to the same shape)
10. Metal and string we use to patch people up now

Learn more about the caddisfly here:

<https://www.wildlifetrusts.org/wildlife-explorer/invertebrates/other-insects/caddisfly>

<https://blog.nationalgeographic.org/2012/07/20/caddisflies-freshwater-species-of-the-week/>

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