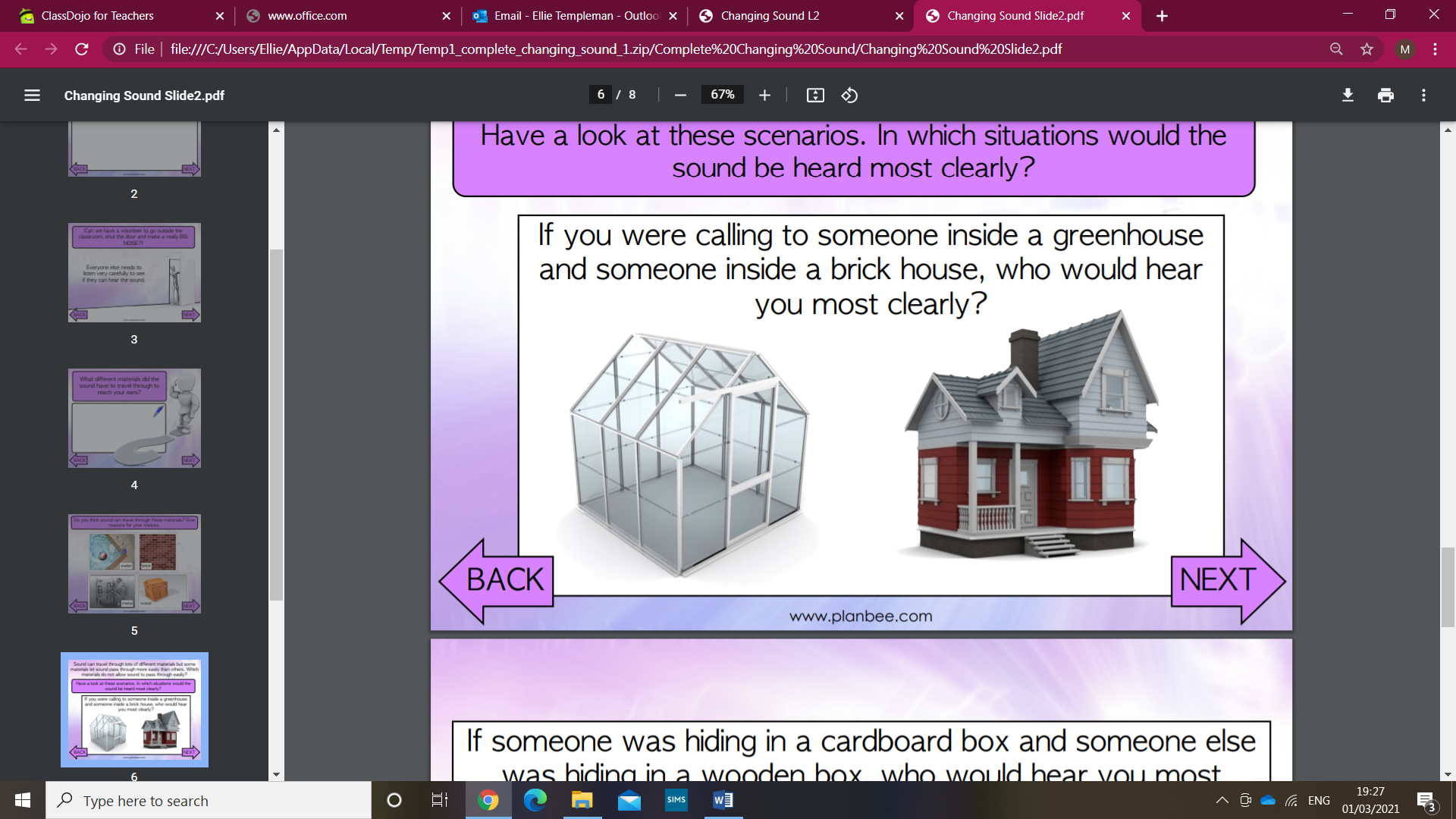
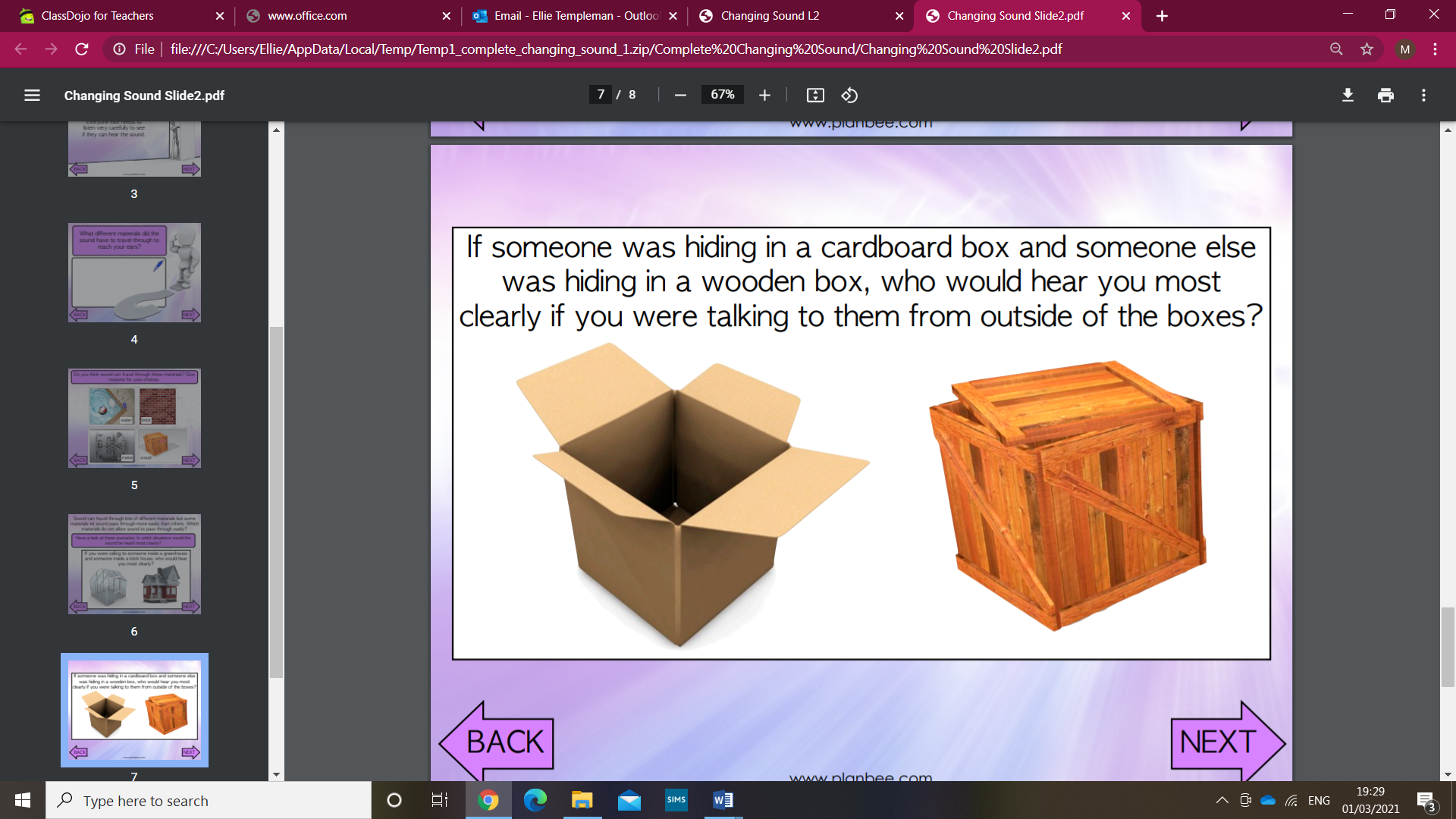
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Walk around your house and your garden for five minutes, list all the sounds you can hear:

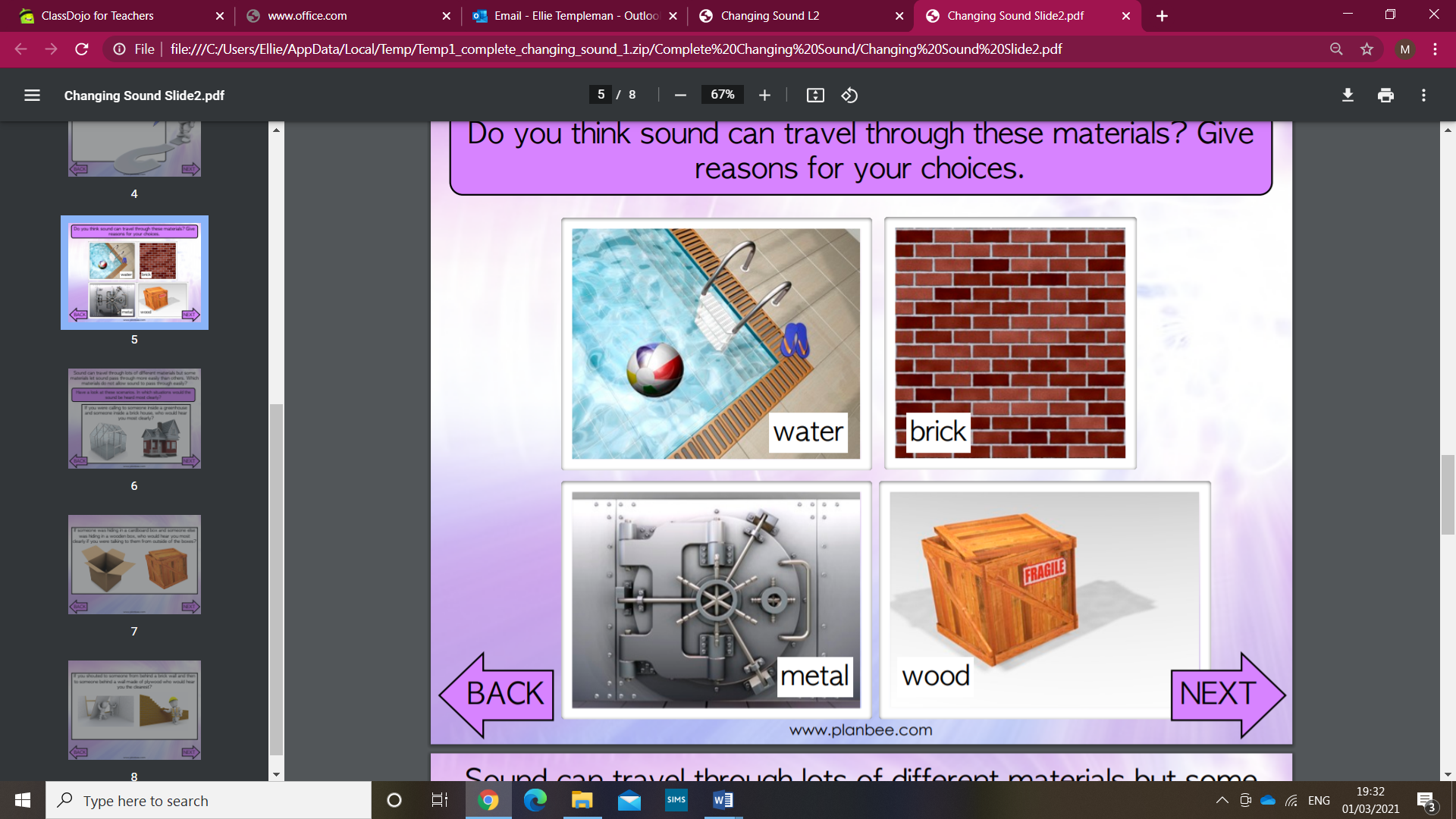
If you were calling to someone from a glass house or a brick house, who would hear you the most clearly?

Explain your answer.

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If someone was inside a cardboard box or a thick wooden box and they starting talking to you, who would you hear the most clearly? Explain your answer.

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Look at the four different materials on the left. Which of these materials would allow sound to travel through easily? Why?

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Which of these materials would not allow sound to travel through easily? Why?

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Homer enjoys watching the Itchy and Scratchy show with Bart, but Marge has been complaining that the sound system is too loud. Homer has asked whether Year 4 pupils could design a sound-proof cinema room so they can watch Itchy and Scratchy, without bothering anyone else in the house. Use this space below to design a sound-proof cinema room for Homer and Bart, make sure you label your designs and use the materials which you know are brilliant at blocking the sound out!