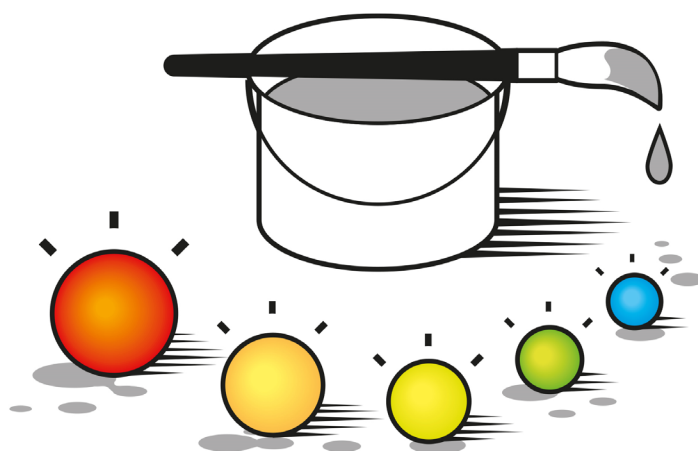


Student Assignment – Chemistry prize 2023  
They added colour to nanotechnology



Moungi Bawendi, Louis Brus and Aleksey Yekimov have been awarded the 2023 Nobel Prize in Chemistry “for the discovery and synthesis of quantum dots”.

What do you think is most interesting about this year’s chemistry prize?

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Imagine that you shine white light into a quantum dot. How does the light that is then emitted by the quantum dot change when you

- a. increase the size of the quantum dot?
- b. decrease the size of the quantum dot?

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How can you change the size of a quantum dot?

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Alfred Nobel wanted to reward contributions that serve the greatest benefit to humankind. In what way do you think the laureates' work does so?

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