Emerging trends:
What if I am asked to talk about new technologies? What can I talk about?

Questions you could be asked – Discuss, evaluate = you need the information available in order to answer these questions.

**What are they? - Real world applications? - Moral and cultural issues? – The potential of the technology in future?**

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| **Nanotechnology****What is it? How might it work?****What can it be used for generally?Give examples of how it has been used in the real world?****How can it be used in the field of computing?** |
| **Artificial Intelligence****What is it?****Why is it so difficult to get right – what are the challenges?****Are there any examples of when its worked well?****Can you explain the uses in:** ***Game / simulation playing – deep blue chess playing******Expert systems – making real life decisions (diagnose diesease based on symptoms)******Natural language – google translate******Neural networks – trying to reproduce connections and processes in the animal brain******Robotics – sensor – kernel - actuator*****What uses might there be in the real world?****What are the most common moral and ethical issues that AI raises?** |
| **DNA computing****What is it? How does it work? Does it work? Is it still more theoretical than practical?What are the potential uses in society?****Why is this substance suitable for use in computing? How might it work?****What possible moral and ethical issues are there with DNA**  |
| **Computational models****What are the three computational models types?** **What do they look like? When are you likely to use each particular method?Can you give examples of when they are used?** |
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