**The evolution of complex life**

The information and video from Monday’s task will help you with these questions. <https://www.youtube.com/watch?v=9i7kAt97XYU>

1. What are the differences between and eukaryotic cell and a prokaryotic cell?
2. How long ago was the earth populated by only prokaryotic cells?
3. Which abilities did prokaryotic cells have which could be advantageous to another cell?
4. What is the process of one organism living inside another called?
5. What did the photosynthetic prokaryotes become in the eukaryotic cell?
6. What did the prokaryotes which could break down glucose into energy become in the eukaryotic cell?
7. Why is it an advantage to gain prokaryotes in a cell?
8. What are the 3 main pieces of evidence for the theory?
9. **Think question**: If you could absorb another living thing to gain its abilities what would that be and why?

**Optional challenge question**: Symbiosis between two organisms is extremely rare in biology. Research why this is the case.