

**Measuring is believing: quantifying adaptation behaviour of *Hydra***

## Activity worksheet 2

Discuss and answer the questions below.

**What could the time periods of the movement represent in the *Hydra*'s natural environment?**

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**How often did the *Hydra* contract in the 2.5 min of observation time?**

**When did these contractions occur?**

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**Did the two animals tested for each time period respond in the same way (yes/no)? Explain your answer. How many animals do you think are ideal for this experiment?**

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**Why did we count the number of contractions to compare the different time period trials?**

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**Why would the *Hydra* not want to stay contracted forever?**

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**Do the results support our class hypothesis? Why or why not?**

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**What future experiments can you come up with to explore this topic further?**

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**How does *Hydra*'s nerve net compare to the nervous system in the human body?**

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**While experiments on vertebrate animals are regulated by laws in many countries, no laws exist for invertebrates, such as *Hydra*. Given what you have learned about *Hydra*'s nervous system and its ability to sense and adapt to its environment, what do you think are important factors to consider when studying *Hydra* and other invertebrates?**

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