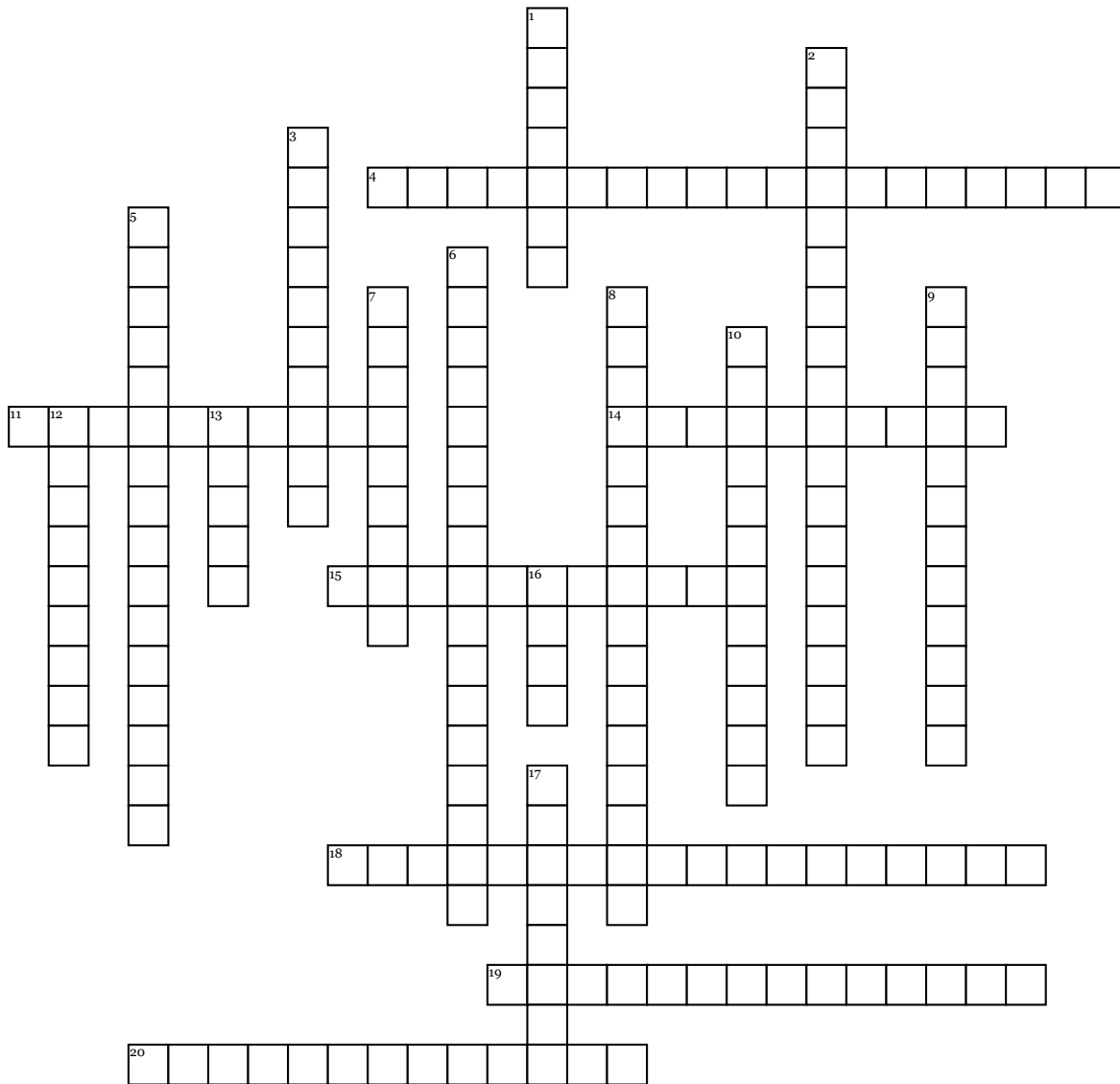


# Osmoregulation and Excretion



## Across

- 4.** middle layer of kidney structure  
**11.** use metabolic heat to maintain internal temp  
**14.** checks appearance, concentration, and content of urine  
**15.** outer layer of kidney structure  
**18.** hormone that regulates sodium levels in blood  
**19.** body fluid concentrations conform to the seawater concentration

- 20.** production of heat through muscle contractions

## Down

- 1.** functional unit of the kidney  
**2.** excretory system of microorganisms  
**3.** takes on the temperature of the environment  
**5.** regulates body temperature  
**6.** excretory system of insects  
**7.** osmolarity of human body  
**8.** last step in the three step kidney function process

- 9.** hormone that helps conserve water when body fluids are low

- 10.** innermost layer in kidney structure  
**12.** excretory system in earthworms  
**13.** concave part of bean shape where nerves and blood vessels enter and ureters exit  
**16.** how many reactions occur in the urea cycle  
**17.** medical process removing waste and excess water from blood