

# **SUBJECT: SCIENCE**

## **Contents:**

### **Unit 7. Diet and growth**

- ✓ 7.4. Moving the body (p.252-259)

### **Unit 8. Chemical reactions**

- ✓ 8.1. Exothermic reactions (p.263-268)
- ✓ 8.2. Endothermic reactions (p.269-275)
- ✓ 8.3. Reactions of metals with oxygen (p.276-281)

**Instructions: Students MUST complete the study guide before revision classes.**

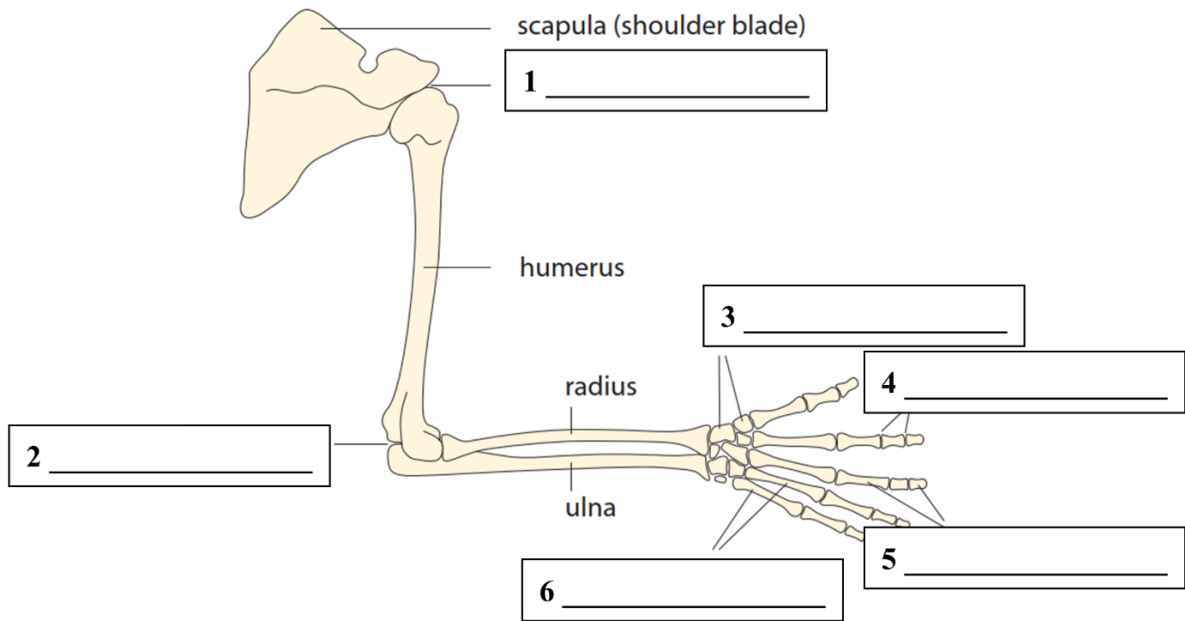
## **PART 1. SCIENTIFIC TERMS**

<b>NO.</b>	<b>TERMS</b>	<b>UNITS</b>	<b>DEFINITIONS</b>	<b>VIETNAMESE TRANSLATIONS</b>
<b>1</b>	<b>skeleton</b>	7.4		
<b>2</b>	<b>exoskeleton</b>	7.4		
<b>3</b>	<b>joint</b>	7.4		
<b>4</b>	<b>hinge joint</b>	7.4		
<b>5</b>	<b>ball-and-socket joint</b>	7.4		
<b>6</b>	<b>elbow joint</b>	7.4		
<b>7</b>	<b>muscle</b>	7.4		
<b>8</b>	<b>tendon</b>	7.4		
<b>9</b>	<b>biceps</b>	7.4		
<b>10</b>	<b>triceps</b>	7.4		
<b>11</b>	<b>relax</b>	7.4		

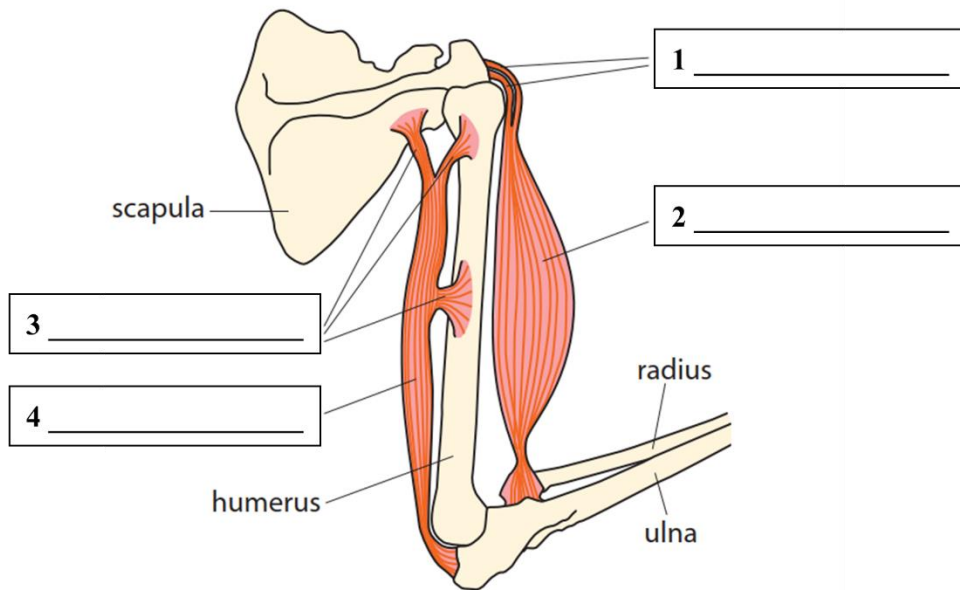
<b>12</b>	<b>contract/ contraction</b>	7.4		
<b>13</b>	<b>bend</b>	7.4		
<b>14</b>	<b>straighten</b>	7.4		
<b>15</b>	<b>antagonistic muscle</b>	7.4		
<b>16</b>	<b>fuel</b>	8.1		
<b>17</b>	<b>dissipate</b>	8.1		
<b>18</b>	<b>combustion</b>	8.1		
<b>19</b>	<b>exothermic reaction</b>	8.1		
<b>20</b>	<b>oxidation reaction</b>	8.1		
<b>21</b>	<b>endothermic reaction</b>	8.2		
<b>22</b>	<b>reactive</b>	8.3		
<b>23</b>	<b>prevent</b>	8.3		
<b>24</b>	<b>inert</b>	8.3		
<b>25</b>	<b>rust</b>	8.3		
<b>26</b>	<b>collapse</b>	8.3		
<b>27</b>	<b>iron</b>	8.3		

## **PART 2. EXERCISES**

### **Exercise 1. Label the bones and joints in the arm.**



### **Exercise 2. Label the muscles in the arm.**



**Exercise 3. Analyse and interpret the following experiment.**

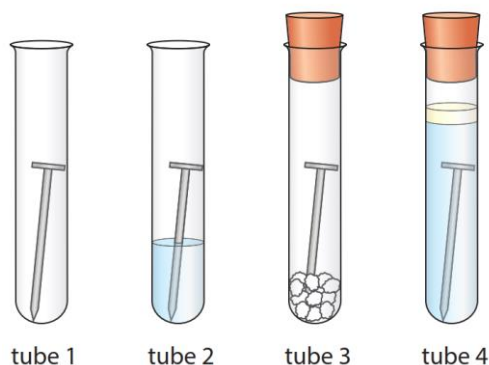
A new iron nail is placed in each of four test tubes.

**Tube 1** contains nothing.

**Tube 2** contains water, and the nail is in the water.

**Tube 3** has calcium chloride in the bottom. The calcium chloride can help to absorb water in the air.

**Tube 4** has water that has been boiled. On top of the boiled water is a layer of oil.



1. Is the air in tube 3 dry? Why?

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2. What is the layer of oil in tube 4 used for?

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3. Which conditions would prevent the iron from rusting?

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4. In which test tube would the nail rust most quickly? Why?

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5. Suggest two ways to protect the iron from rusting.

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**Exercise 4. Complete the following chemical reactions by writing the appropriate reactants or products.**

1. carbon + \_\_\_\_\_ → carbon dioxide

2. hydrogen + oxygen → \_\_\_\_\_

3. \_\_\_\_\_ + oxygen → iron oxide

4. zinc + \_\_\_\_\_ → zinc oxide

5. \_\_\_\_\_ + \_\_\_\_\_ → magnesium oxide