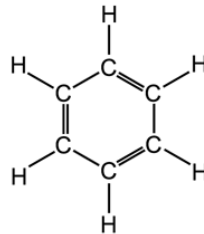


Materials: scissors and glue

1. Use the periodic table to find information on the following elements.

Element	Symbol	Atomic number	Metal or Nonmetal
Carbon			
Hydrogen			
Oxygen			
Nitrogen			
Phosphorus			
Sulfur			

$$\begin{array}{c} \text{H} \\ | \\ \text{H}-\text{C}-\text{C} \begin{array}{l} \nearrow \text{O} \\ \searrow \text{H} \end{array} \\ | \\ \text{H} \end{array}$$


1

1A

1

H

1.008

Hydrogen

2

2A

2

He

4.003

Helium

3

4

3

Li

6.941

Lithium

4

4

4

Be

9.012

Beryllium

11

12

11

Na

22.990

Sodium

12

12

12

Mg

24.305

Magnesium

19

20

19

K

39.098

Potassium

20

20

20

Ca

40.078

Calcium

37

38

37

Rb

85.468

Rubidium

38

38

38

Sr

87.62

Strontium

55

56

55

Cs

132.905

Cesium

56

56

56

Ba

137.328

Barium

87

88

87

Fr

(223)

Francium

88

88

88

Ra

(226)

Radium

103

104

103

La

138.905

Lanthanum

104

104

104

Ce

140.116

Cerium

105

105

105

Pr

140.908

Praseodymium

106

106

106

Nd

144.242

Neodymium

107

107

107

Pm

(145)

Promethium

108

108

108

Sm

150.36

Samarium

109

109

109

Eu

151.964

Europium

110

110

110

Gd

157.25

Gadolinium

111

111

111

Tb

158.925

Terbium

112

112

112

Dy

162.500

Dysprosium

113

113

113

Ho

164.930

Holmium

114

114

114

Er

167.259

Erbium

115

115

115

Tm

168.934

Thulium

116

116

116

Yb

173.055

Ytterbium

117

117

117

Lu

174.967

Lutetium

118

118

118

Hf

178.49

Hafnium

119

119

119

Ta

180.948

Tantalum

120

120

120

W

183.84

Tungsten

121

121

121

Re

186.207

Rhenium

122

122

122

Os

190.23

Osmium

123

123

123

Ir

192.217

Iridium

124

124

124

Pt

195.085

Platinum

125

125

125

Au

196.967

Gold

126

126

126

Hg

200.59

Mercury

127

127

127

Tl

204.383

Thallium

128

128

128

Pb

207.2

Lead

129

129

129

Bi

208.980

Bismuth

130

130

130

Po

(209)

Polonium

131

131

131

At

(210)

Astatine

132

132

132

Rn

(222)

Radon

133

133

133

Fr

(223)

Francium

134

134

134

Ra

(226)

Radium

135

135

135

Ac

(227)

Actinium

136

136

136

Th

232.038

Thorium

137

137

137

Pa

231.036

Protactinium

138

138

138

U

238.029

Uranium

139

139

139

Np

(237)

Neptunium

140

140

140

Pu

(244)

Plutonium

141

141

141

Am

(243)

Americium

142

142

142

Cm

(247)

Curium

143

143

143

Bk

(247)

Berkelium

144

144

144

Cf

(251)

Californium

145

145

145

Es

(252)

Einsteinium

146

146

146

Fm

(257)

Fermium

147

147

147

Md

(258)

Mendelevium

148

148

148

No

(259)

Nobelium

149

149

149

Lr

(262)

Lawrencium

150

150

150

Rf

(267)

Rutherfordium

151

151

151

Db

(268)

Dubnium

152

152

152

Sg

(271)

Seaborgium

153

153

153

Bh

(272)

Bohrium

154

154

154

Hs

(270)

Hassium

155

155

155

Mt

(276)

Meitnerium

156

156

156

Ds

(281)

Darmstadtium

157

157

157

Rg

(280)

Roentgenium

158

158

158

Cn

(285)

Copernicium

159

159

159

Nh

(286)

Nihonium

160

160

160

Fl

(289)

Flerovium

161

161

161

Mc

(290)

Moscovium

162

162

162

Lv

(293)

Livermorium

163

163

163

Ts

(294)

Tennessine

164

164

164

Og

(294)

Oganesson

Atomic number

Symbol

Atomic mass

14

Si

28.086

Silicon

Name

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

1A

2A

3B

4B

5B

6B

7B

8B

1B

2B

3A

4A

5A

6A

7A

8A

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Lanthanide Series

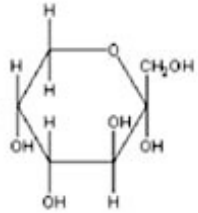
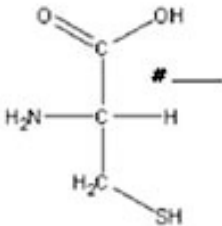
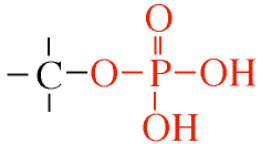
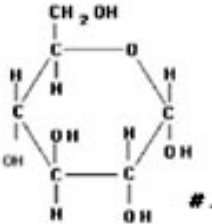
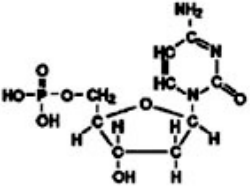
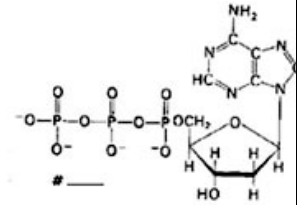
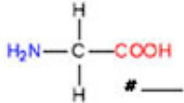
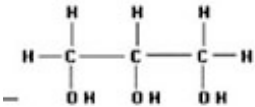
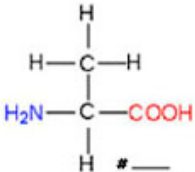
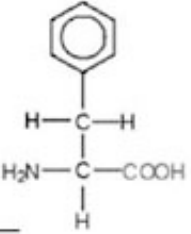
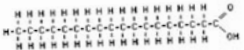
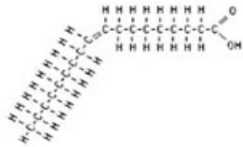
Actinide Series

11

DO NOT GLUE TO NOTEBOOK PAGE

What to Do:

1. Cut out the squares below.
2. Determine some ways of dividing these compounds into 4 different groups.

1 	2 	3 
4 	5 	6 
7 	8 	9 
10 	11 	12 

3. Group your compounds and be ready to share your reasoning.

Questions:

1. Look at your first group. Why did you put those compounds together? _____
2. Look at your second group. Why did you put those compounds together? _____
3. Look at your third group. Why did you put those compounds together? _____
4. Look at your fourth group. Why did you put those compounds together? _____
5. What do all of these compounds have in common?

6. Glue the compounds in their groups in your science notebook.
7. List the elements used in the compounds below.

8. We can remember the elements found in organic compounds by remembering the silly word below.

CHONPS

What does each letter stand for? _____

Name _____ period _____

EXIT TICKET

Learning About Organic Compounds

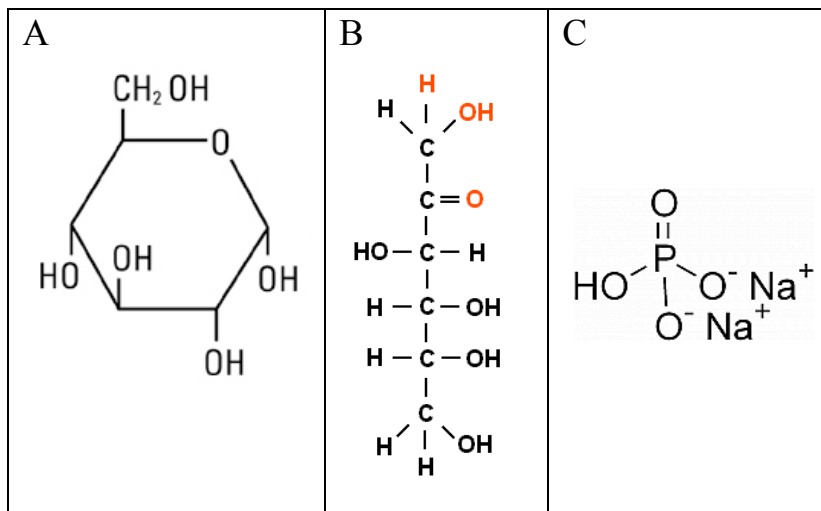
1. What element is found in every living thing?

- A. Nitrogen
- B. Phosphorus
- C. Carbon

2. Which of the following compounds is most likely to be found in living organisms?

- A. SiO_2
- B. $\text{C}_6\text{H}_{12}\text{O}_6$
- C. KI

3. Below you will find pictures that chemists use to represent various compounds. Which of the compounds is NOT an organic compound?

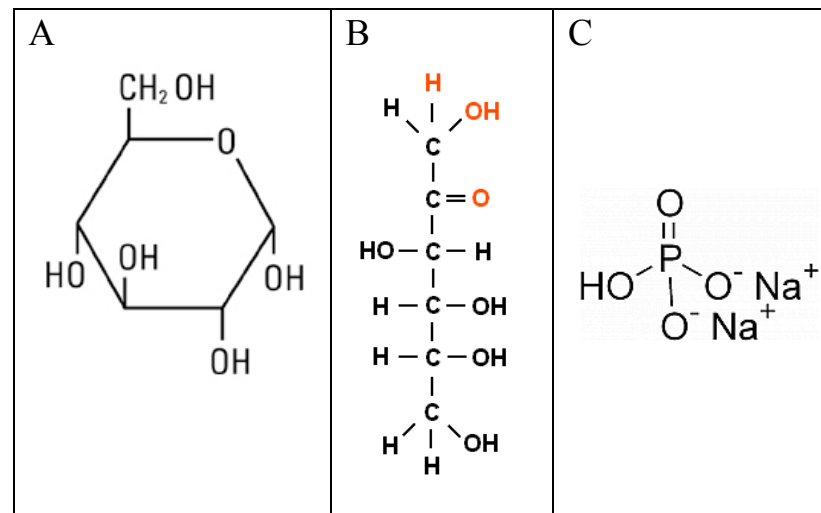


Name _____ period _____

EXIT TICKET

Learning About Organic Compounds

1. Below you will find pictures that chemists use to represent various compounds. Which of the compounds is NOT an organic compound?



2. What element is found in every living thing?

- A. Nitrogen
- B. Phosphorus
- C. Carbon

3. Which of the following compounds is most likely to be found in living organisms?

- A. SiO_2
- B. $\text{C}_6\text{H}_{12}\text{O}_6$
- C. KI