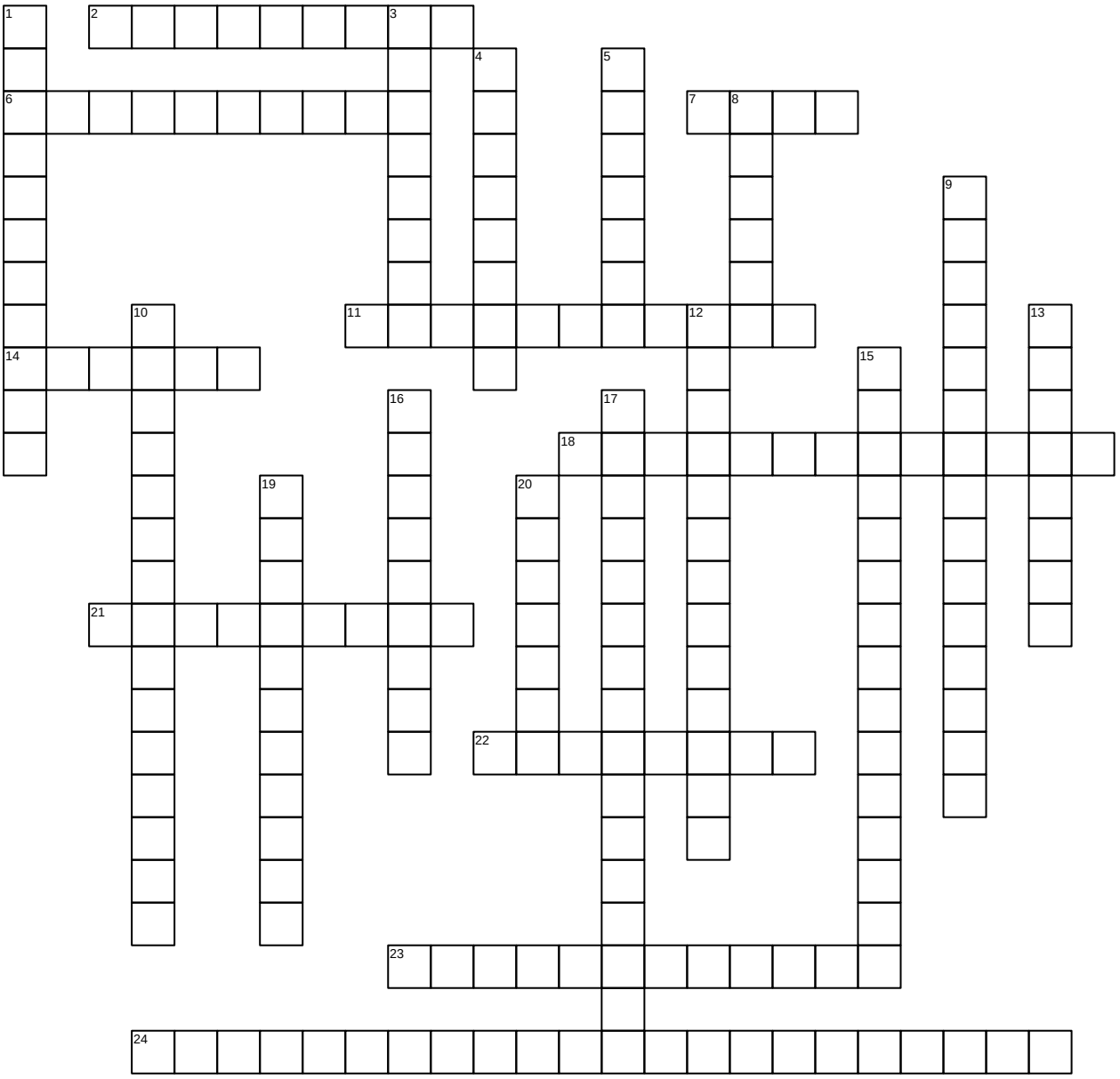
C2.5 - Synthesis



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ACROSS

2 Based on experimental data, not on a theory

6 Can be broken to add more atoms to a molecule (6,4)

7 Hydrocarbons that are solid at room temperature, obtained from animals

11 A molecule which can have atoms added to it

14 Hydrocarbon with one double bond

18 Plastic that softens when heated

21 A molecule to which no more atoms can be added

22 The splitting up of large hydrocarbons into smaller ones

23 The sharing of an electron between atoms to form a molecule (8,4)

24 Development that ensures that the use of resources and the environment today does not damage prospects for use by future generations (11,11)

DOWN

1 The addition of hydrogen to hydrocarbon to saturate it

3 The joining of atoms to molecules, or monomer to monomer

4 Concise way of writing the composition of molecules

5 The small, repeating molecule used to form polymers

8 Hydrocarbon with only single bonds

9 Molecule with only one double bond

10 Proportion of actual amount produced compared to the theoretical (10,5)

12 Plastic that has cross links between polymer chains

13 The extent or degree of being poisonous.

15 Molecule with lots of double bonds

16 The formation of a compound from simpler compounds or elements

17 The amount of product which should be made in a chemical reaction if everything goes perfectly.(11,5)

19 A molecule made up of only hydrogen and carbon

20 A long chain molecule made up of repeating smaller parts