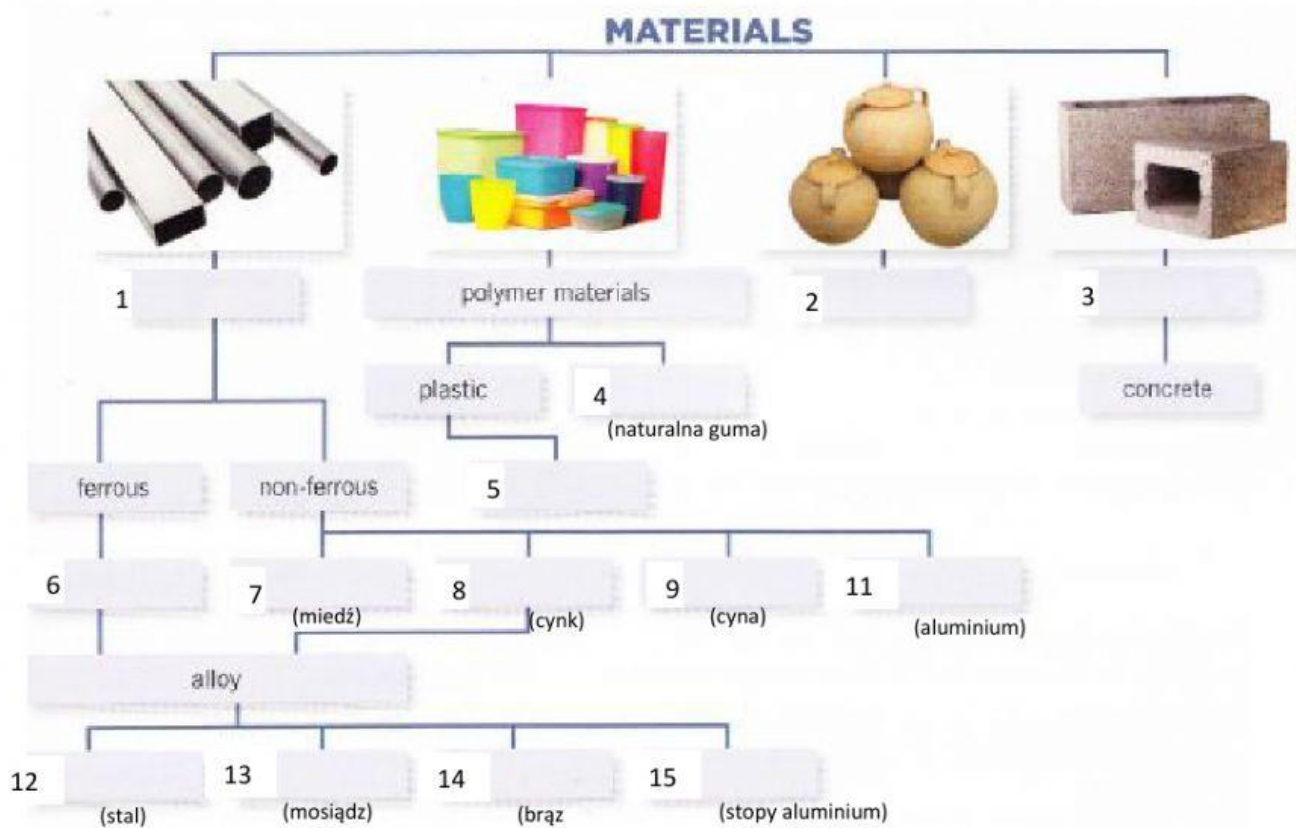


Total: /70

**I. Complete the diagram below. (15p)**



**II. Answer the following questions. (10p)**

1. What are the two basic classifications of materials?

i. \_\_\_\_\_

ii. \_\_\_\_\_

2. What are the characteristics of iron? (2 words)

\_\_\_\_\_ and \_\_\_\_\_

3. Why are alloys created?

*Alloys are created to* \_\_\_\_\_

4. Which materials are good insulators? (1 word)

\_\_\_\_\_

5. Is steel an alloy? Which metal does it contain?

Yes/No \_\_\_\_\_. \_\_\_\_\_

6. What are the earliest examples of composite materials?

\_\_\_\_\_

7. What is a modern everyday example of a composite material?

\_\_\_\_\_

**III. Complete the sentences below.(10p)**

1. With regard to the chemical composition of materials, three main categories can be used:

1)\_\_\_\_\_, 2)\_\_\_\_\_ and 3)\_\_\_\_\_

2. The three common formats of raw materials are: 1)\_\_\_\_\_, 4)\_\_\_\_\_ and

5)\_\_\_\_\_

3. Raw materials are often intended to be 6)\_\_\_\_\_ or 7)\_\_\_\_\_

4. Powder particles are 8)\_\_\_\_\_ than pellets.

5. A steel bloom is a type of 9) \_\_\_\_\_.

6. Pellets 10)do/don't \_\_\_\_\_require further processing.

**IV. Write the appropriate words or phrases for the definitions below.(10p)**

1. the hard smooth yellowish-white substance from the tusks of an elephant \_\_\_\_\_

2. the main body of an aircraft \_\_\_\_\_

3. accessories, articles, or details used to beautify the appearance of something to which it is added or of which it is a part \_\_\_\_\_

4. a piece of equipment fastened to the back of people who jump out of planes, which makes them fall slowly and safely to the ground \_\_\_\_\_

5. something added to provide more strength or support \_\_\_\_\_

6. a substance in which other things are fixed, buried \_\_\_\_\_

7. format of processed material produced in variety of section shapes eg. profiles in the shape of letter „I“ are very common \_\_\_\_\_

8. flat pieces of metal that are wide , but thicker than sheets (for steel thicker than 3mm)\_\_\_\_\_

9. move up or away from a surface after hitting \_\_\_\_\_

10. a continuous series of circular rings into which something such as wire or rope has been wound or twisted \_\_\_\_\_

**V. Complete the sentences with a word or a phrase.(5p)**

1. To guarantee safety for traffic, this bridge d\_\_\_\_\_ must be sturdy enough to withstand constant pressure

2. Her hair was t\_\_\_\_\_ to a soft shade of red.
3. The dead plants slowly d\_\_\_\_\_ into compost.
4. A lightweight, r\_\_\_\_\_ nylon was used to make parachutes during WW II.
5. T\_\_\_\_\_ is a thick black sticky substance that is used especially for making roads.

**VI. Complete the second sentence so that it has a similar meaning to the first sentence. Use NO MORE THAN FIVE WORDS including the word given. (5p)**

1. It's possible they'll build plastic motors in the future. (POSSIBLY)  
\_\_\_\_\_ motors in the future.
2. They will probably build cars from plastic in the future. (LIKELY)  
\_\_\_\_\_ build cars from plastic in the future.
3. It's unlikely that they will make all vehicles from plastic. (PROBABLY)  
\_\_\_\_\_ all vehicles from plastic.
4. They will definitely start manufacturing in December. (CERTAIN)  
\_\_\_\_\_ start manufacturing in December.
5. She'll try her best to be there. (SURE)  
I \_\_\_\_\_ that she'll try to do her best to be there.

**VII. Complete the following sentences with the right verb form. (7p)**

1. We need to be there at ten, and if you don't go faster we \_\_\_\_\_ (arrive) by then.
- 2,3. Our plane \_\_\_\_\_ (leave) next Tuesday morning. We \_\_\_\_\_ (fly) first to Toronto and then to New York
4. I don't think he \_\_\_\_\_ (find) a job easily.
- 5,6. When they arrive next week, they \_\_\_\_\_ (travel) for 3 entire months and they \_\_\_\_\_ (visit) 8 different countries.
7. I love photography. I \_\_\_\_\_ (buy) a digital camera soon. I just need to save a bit more.

**VIII. Complete the sentences with the appropriate preposition. (8p)**

1. I'll be 100 years old \_\_\_\_\_ the year 2095.
2. See you \_\_\_\_\_ Tuesday!
3. My grandfather left home \_\_\_\_\_ the age of fourteen!
4. Food packaging materials are usually made \_\_\_\_\_ plastics.
5. Pompoms are made \_\_\_\_\_ coloured paper.
6. There weren't any chairs so we had to sit \_\_\_\_\_ the floor.
7. Walk \_\_\_\_\_ the station, but turn left a couple of blocks before you get there.

8. We should arrive \_\_\_\_\_ Paris at six in the morning.