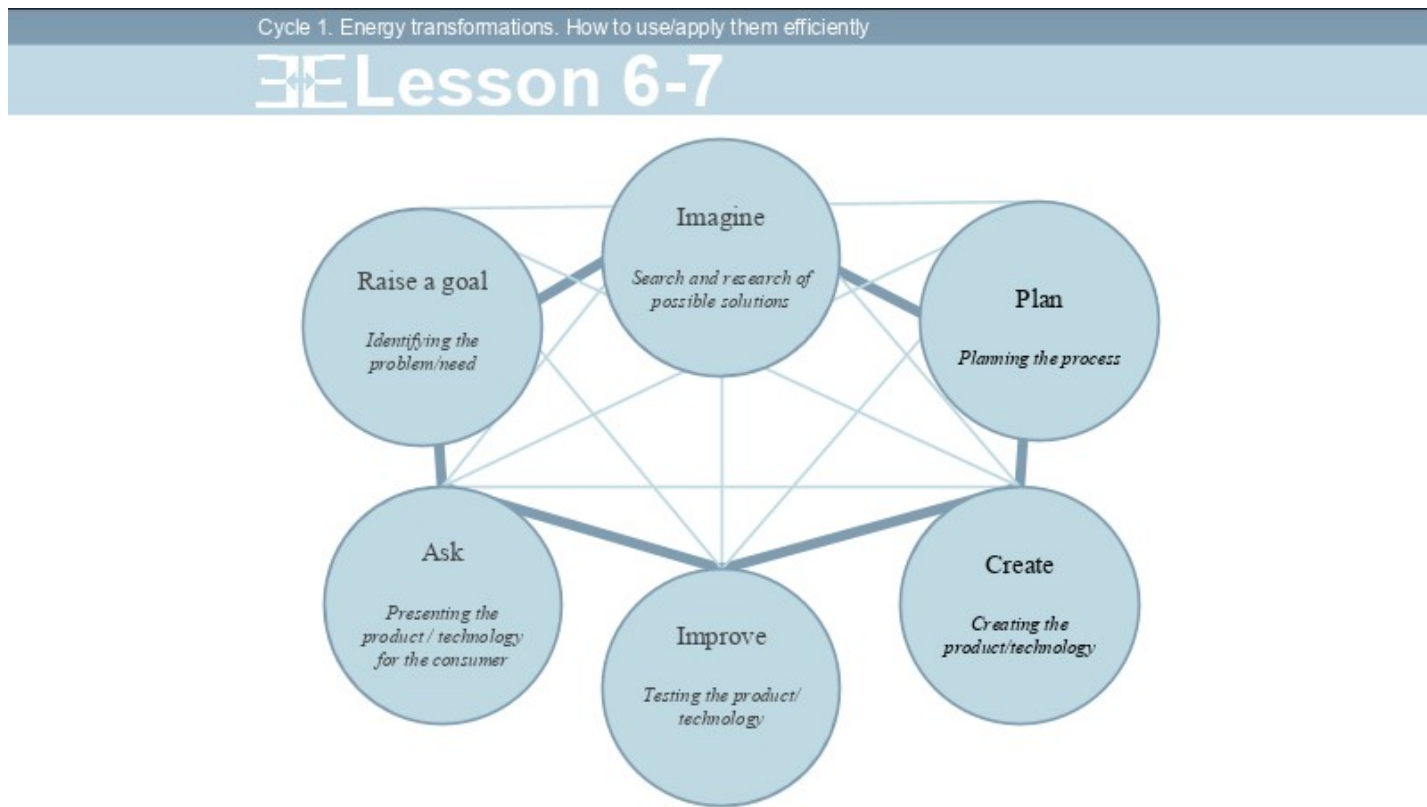


LESSON 6-7

Appendix No. 1. Scheme of engineering design process



Appendix No. 2. Task.



Prepare presentations that would illustrate / prove the claims:

- plastic packaging causes significant damage to the environment;
- bioplastics can replace non-degradable plastics;
- paper packaging is most commonly used. Why? Provide positive and negative aspects of using paper packaging.

LESSON 6-7

Apendix No. 3.

Task 1

Experiment with different kind of paper (or other material). On the right side of the table write all the materials you will be using, on the left evaluate ther results from 0 to 5 (0— poor, 5— very good).

	Material	Resistance to water/time it takes to dissolve in water	Durability/ resistance to mechanical damages	Suitability for bending	Suitability to recycle	Flammability	
1							
2							
3							
4							
5							

Task 2

Answer these questions:

1. Which material (kind of paper), in your opinion, is the least suitable for some conditions (for ex., packing products which contain humidity)? Why?

2. Which material is the most durable? Why?

3. Which material decomposes the fastest ? Why?

4. Which materials do not decompose under natural conditions? Kodél?

5. What has the criteria that you've chosen revealed about your researched materials ?

6. What have you noticed about every type of material?

EE LESSON 6-7

Lessons No. 6 -7. Appendix No. 5. Instructions for task fulfilment.

Cycle 2. Creative engineering and design ideas

EE Lesson 6-7

Criteria for completing the work:

- environmentally- friendly packaging and the material which best suits your needs;
- the production process of the packaging does not take much time, labor costs;
- the package is relatively cheap.

LESSON 6-7

Appendix No. 6. Original package.

Task 1

Create a design of an original package and sketch the package template using a design program QCAD, following this criteria:

- environmentally- friendly packaging and the material which best suits your needs;
- the production process of the packaging does not take much time, labor costs;
- the package is relatively cheap.

Sketches

Task 2

Answer these questions:

1. What is the purpose of your package?

2. What material did you choose for the package? why?

3. Will other material be used for this package? What kind of material?

• Package design features:

Form -----

Size -----

Color -----