

Assignment: Pick a field of engineering you are interested in and write a 5 page paper on that field. Even if you are currently not interested in going into the engineering field, pick one you would choose if you were, or pick one that is interesting to you.

Due Date: ~~Wednesday 3/18~~ 4/3

Length – 5 pages, including text and photos. Must have minimum of 3 full pages with text.

Format - Double Space, Times New Roman, Font size 14. Put paper in your own words as much as possible. Do not plagiarize – I will be checking for this.

Parts of the Paper

- 1) Table of Contents – include each section and page number(s)
- 2) Introduction – tell about what it involves and what they do. Tell about what education is required. How much do they make? etc., etc.
- 3) Where do they work? Give examples of where they work in the field.
- 4) What types of things do they design?
- 5) What would you do if you were this type of engineer? Come up with a specific design? Explain how it would work? How much would it cost (materials and labor)? Make a hand sketch of your design, ~~make a model of your design on sketchup.~~

MAJOR TYPES OF ENGINEERING

Mechanical – design of mechanical systems to assist industries such as manufacturing, aeronautics, nuclear power production, nanotechnology, heating and cooling.

Aerospace – study of air and space travel.

Biomedical – combines study of medicine and biology for design in biological and medical sciences.

Automotive – the design and production of vehicles.

Civil – development of infrastructure such as buildings, railways, roads, general construction, bridges

Architectural – work in construction planning, and design phase of projects. Focus on building structure and interior design.

Electrical – study of energy. Develops technologies in areas such as electrical, hydro, natural resources such as wind and solar energy.

Computer – focus on the Information Technology (IT) industry.

Chemical – practical application of chemistry. Creates new products such as cosmetics, foods, beverages, cleaners, new chemicals, etc.

Environmental – one of the most popular kinds. Study of science and engineering to improve the environment. Air, food, water

Material Science – study of materials and why they behave a certain way – plastic, ceramics, and polymers.

Agricultural – applies engineering to assist with farming including soil, ground, irrigation, farm machines

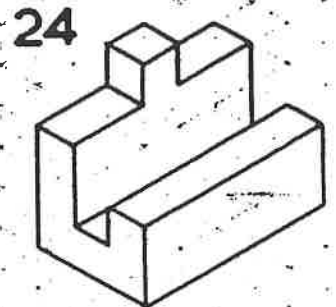
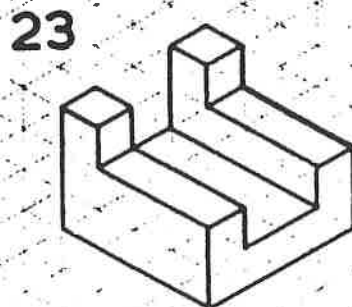
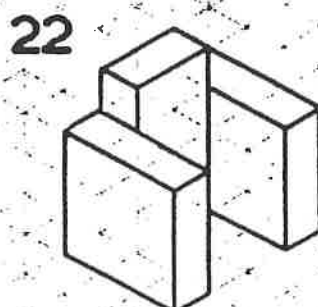
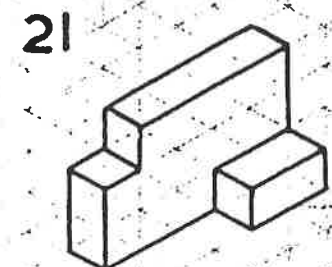
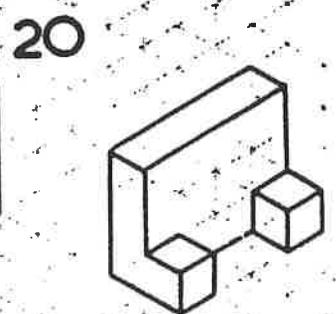
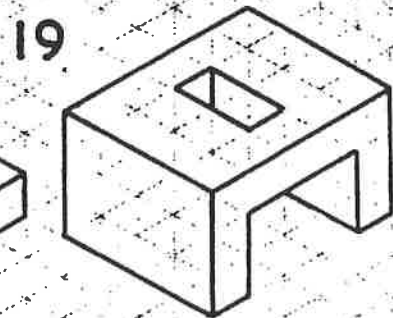
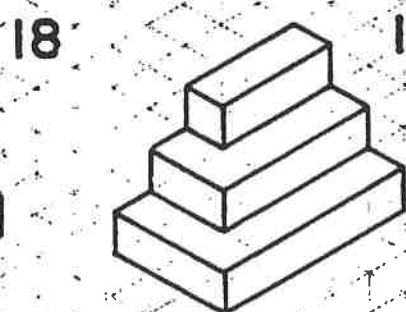
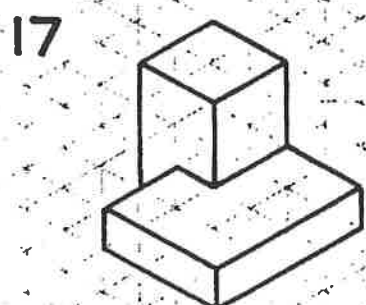
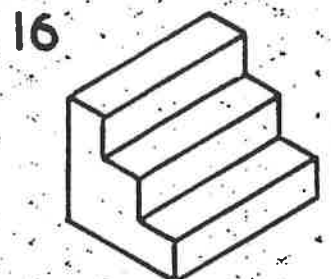
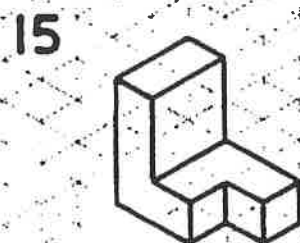
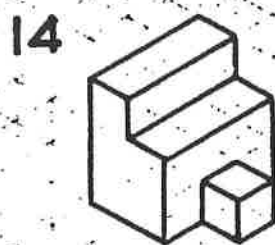
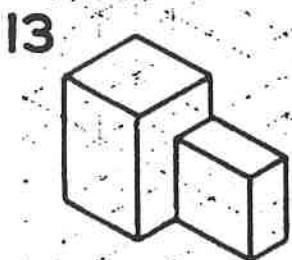
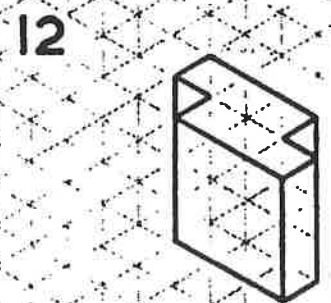
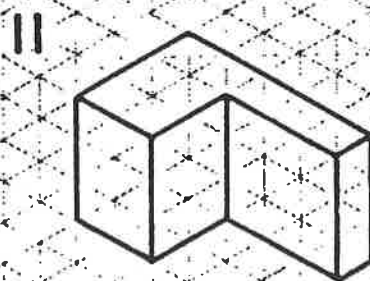
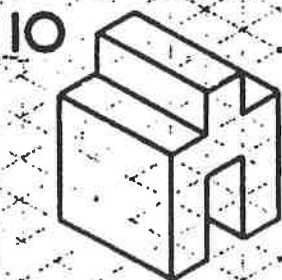
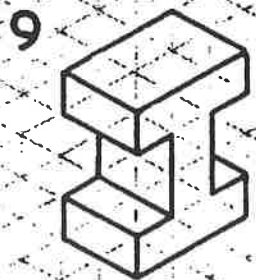
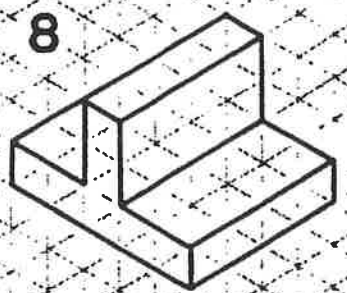
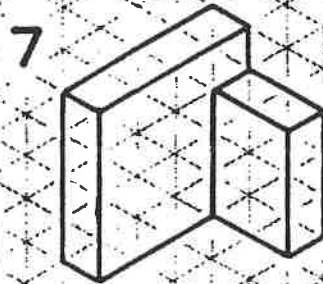
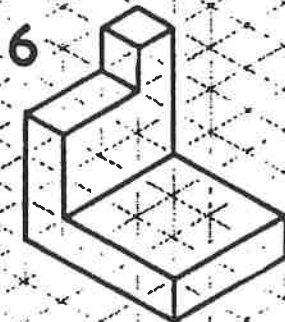
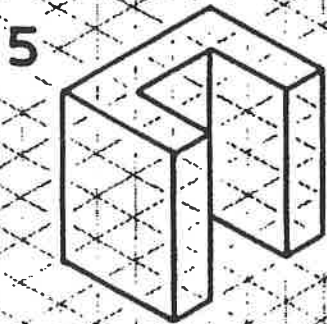
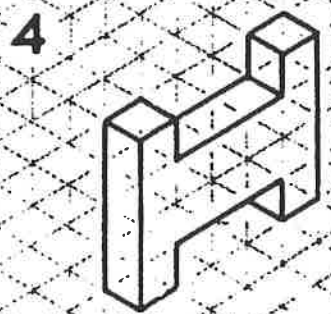
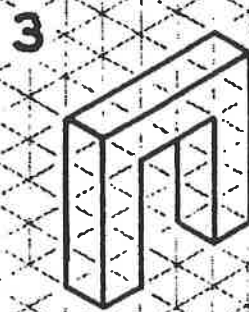
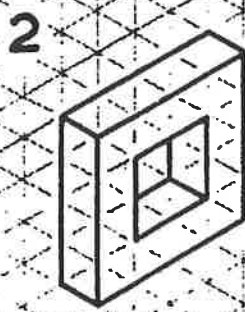
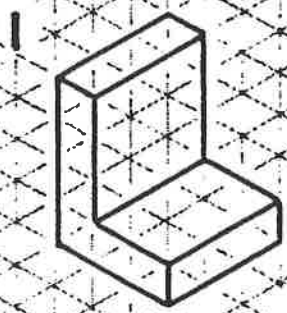
Industrial – work for manufacturing companies, consultants to the manufacturing industry.

Petroleum – studies extraction of oil and gas from beneath the earth.

Nuclear – development of the ever growing use of nuclear power.

Mining – study of extraction of mined resources from the earth in a safe, economical and environmentally responsible manner. Also do mine design.

Pick any 15 of the isometric objects on the attached sheet and draw them on the paper provided. Make sure you draw to scale. Draw two on each piece of paper.



NAME

TITLE

DATE

PERIOD

A

B

A

B

2

2

1

1

