

## Definite and indefinite articles

### Use of conditionals in description of a process.

#### Activity 1: Fill in the blanks with the correct article (*a / an / the / –*) in each sentence.

1. During \_\_\_\_ tensile test, a material is stretched until it breaks.
2. Engineers measure \_\_\_\_ force applied and the elongation that results.
3. \_\_\_\_ main objective is to determine the yield strength.
4. \_\_\_\_ accurate result depends on using a properly calibrated machine.
5. If \_\_\_\_ incorrect setting is used, the results will be unreliable.
6. Many labs use \_\_\_\_ extensometer to measure elongation precisely.
7. Stress is calculated as force per unit area of \_\_\_\_ specimen.
8. Before testing, \_\_\_\_ sample must be cut according to standard dimensions.
9. \_\_\_\_ load cell converts force into an electrical signal.
10. If \_\_\_\_ standard procedure is not followed, results may not be valid.

#### Activity 2: Match each part A with the correct part B. Pay attention to article usage and conditional logic: E.g. (1.f)

##### Part A

1. If you don't level \_\_\_\_ print bed,
2. \_\_\_\_ process begins with designing a model using CAD software,
3. You need to check \_\_\_\_ filament before loading it,
4. \_\_\_\_ heated nozzle melts the material,
5. If \_\_\_\_ filament is moist,
6. \_\_\_\_ key to successful printing is temperature control,

##### Part B

- A. it could clog \_\_\_\_ nozzle and damage the machine.
- B. you will get \_\_\_\_ defective product.
- C. print quality will be affected.
- D. you might waste \_\_\_\_ entire spool of filament.
- E. if you want to avoid warping.
- F. and then slicing it into printable layers.

**Part A**

7. Always monitor \_\_\_\_ temperature of the printer,
8. \_\_\_\_ user manual provides the setup instructions,
9. If you forget to clean \_\_\_\_ print bed,
10. If you use \_\_\_\_ wrong material,

**Part B**

- G. you should dry it before use.
- H. make sure you read it carefully.
- I. so that \_\_\_\_ model adheres properly.
- J. which is then extruded layer by layer.

**Activity 3: Complete the sentences using the correct article and conditional form. Use your understanding of the water filtration process.**

1. If you install \_\_\_\_ activated carbon filter, it will remove most organic compounds.
2. \_\_\_\_ filtration process depends on the flow rate and pressure.
3. If \_\_\_\_ membrane becomes clogged, water flow will decrease.
4. \_\_\_\_ system must be flushed before first use.
5. If the user doesn't replace \_\_\_\_ cartridge regularly, the filter will stop working.
6. \_\_\_\_ sediment filter removes large particles like sand and rust.
7. If \_\_\_\_ flow rate exceeds recommended limits, the system may leak.
8. \_\_\_\_ reverse osmosis unit is added to remove dissolved salts.
9. You must monitor \_\_\_\_ pressure gauge during operation.
10. If you skip \_\_\_\_ maintenance schedule, performance will decline rapidly.

**Activity 4: Rewrite each sentence using a conditional and correct article use.**

1. Inspectors check all connections. Faulty ones are repaired.
2. They test pressure valves with equipment. The equipment must be certified.

3. The inspector records the results. He enters them into the system.
4. They don't calibrate the sensor. It gives inaccurate readings.
5. There is a leak in the pipe. The system is shut down.
6. Engineers use ultrasonic testing. It detects cracks.
7. The report is incomplete. They reject the test.
8. They perform an inspection. It ensures safety.
9. The reading is out of range. They investigate the cause.
10. The technician resets the control unit. The issue is resolved.