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	**Part B**
1. If you don't level ___ print bed,	A. it could clog ___ nozzle and damage the machine.
2. ___ process begins with designing a model using CAD software,	B. you will get ___ defective product.
3. You need to check ___ filament before loading it,	C. print quality will be affected.
4. ___ heated nozzle melts the material,	D. you might waste ___ entire spool of filament.
5. If ___ filament is moist,	E. if you want to avoid warping.
6. ___ key to successful printing is temperature control,	F. and then slicing it into printable layers.

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Part A	Part B
7. Always monitor ___ temperature of the printer,	G. you should dry it before use.
8. ___ user manual provides the setup instructions,	H. make sure you read it carefully.
9. If you forget to clean ___ print bed,	I. so that ___ model adheres properly.
10. If you use ___ wrong material,	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.

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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.

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