# **Lecture 4:** Hypothesis

A fact is something certain. It can be proved. It exists. Science, however, is not only concerned with what is already known, it is also very much concerned with what remains to be discovered. Exploring zones of doubt and ambiguity, making hypotheses and building models are essential functions of scientific activity.

Hypothesis can be expressed in three main ways:

- by conditionals,
- through the use of certain conjunctions, adverbs and verbs,
- by modals (see Unit 9).

In this section, we focus on the different forms and uses of the conditional. Conditionals link two ideas – a hypothetical cause and its result.

Compare: > I gave her some medicine when she was ill.

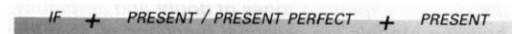
➤ If she was ill, I would give her some medicine.

In the first sentence, the illness is a fact. In the second it is only a hypothesis. In the first sentence the patient gets some medicine. In the second, she doesn't.

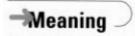
## Functions & Grammar

### **KEY POINTS - CONDITIONALS**

- 1. Verb forms
- → There are four different forms of the conditional.
- The timeless conditional

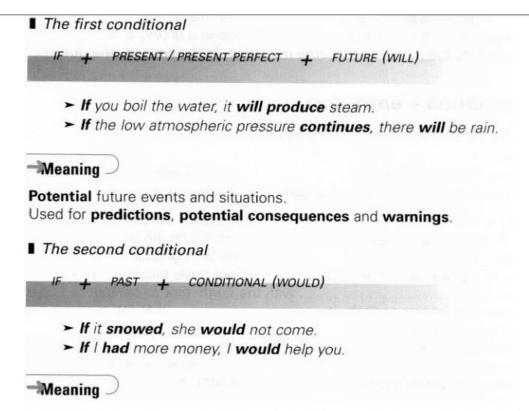


- ➤ If water boils, it produces steam.
- ➤ If water has boiled, it is safe to drink.



Conditions which are **invariably true** – therefore timeless.

Typically, this form is used to express **scientific facts** and **logical links**.



**Speculation**, **unreal** or **imaginary situations** which are not very likely to happen. N.B. –The difference between the first and the second conditional is **not** a difference in time – it is a difference in the **probability** of the **condition**.

#### ■ The third conditional

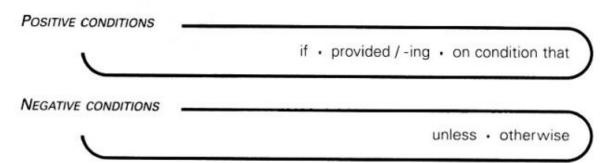
- ➤ If Napoleon had invaded England, French would have become the language of science.
- > He would have avoided the accident if he had left earlier.

## →Meaning \_

Reference to events and results in the past that **did not occur** because the conditions were **not fulfilled** <sup>G. Notes 19</sup>.

### 2. Conjunctions

→ "If" is not the only conjunction used to introduce conditions.



We will go swimming tomorrow unless it rains.

### 3. Lexical expressions

→ There is a restricted number of lexical expressions which can have a conditional meaning.

- a requirement a prerequisite
  to depend on to require
  it is necessary essential
- ➤ My visit depends on the weather. (if the weather is bad, I won't come)
- ➤ Hygienic conditions are a **prerequisite** for surgical intervention.