APPENDIX A

The Education Systems of the G-8 Countries
READER’S GUIDE: EDUCATION SYSTEM CHARTS

Differences in the structure of countries’ education systems often make international comparisons difficult. To improve the comparability of education indicators, the United Nations Educational, Scientific and Cultural Organization (UNESCO) created an internationally comparable method for describing levels of education across countries called the International Standard Classification of Education (ISCED). Using the ISCED classifications as a starting point, NCES worked with education professionals in the G-8 countries to create an overview of each country’s education system.

There are differences within the education systems of some G-8 countries due to responsibilities and oversight for education taking place at the regional or local level. However, the charts and accompanying text in this appendix are intended to give the reader a general overview of the education system of each G-8 country, from the primary to the doctoral level. Thus, some differences within the education systems of G-8 countries may not be discussed here.

As indicated in the source note for each country chart, the information summarizing each country’s education system comes largely from the previous Comparative Indicators report (in 2004). However, there are some differences in what appears in the current report compared to the 2004 report. As indicated in some of the source notes, some additional information comes from updated online resources. Also, some modifications were made based on comments received from several international reviewers: Yves Beaudin of the Canadian Information Centre for International Credentials (Toronto, Canada), Galina Kovalyova of the Russian Academy of Education (Moscow, Russian Federation), Thierry Rocher of the Ministry of National Education (Paris, France), Hanako Senuma of the National Institute for Educational Policy Research (Tokyo, Japan), and Linda Sturman and Liz Twist of the National Foundation for Educational Research (Slough, United Kingdom).

The reader is encouraged to seek out additional resources to gain a fuller and deeper understanding of each country’s education system. A list of websites with additional information is provided at the end of this Reader’s Guide, and additional sources are cited after each country’s education system is presented.

How to Read the Charts

Each of the charts on the following pages is a broad representation of the education system of a G-8 country. The charts are not intended to show all of the possible pathways that a student can take or the many configurations of grades that may be found within the same school. Rather, each chart is intended to provide a general description that is useful for comparison across the G-8 countries.

The colors on each chart correspond to ISCED levels (see next section). The ISCED term for each level of education is written within each block. The terms in italics in each block are a country’s designation for that particular level (e.g., high school for upper secondary school). The left side of each chart is labeled with the typical ages corresponding to each level of education. The age labels represent the typical age at which a student begins the corresponding year of schooling; often, students are 1 year older at the end of the school year. Ages in bold text are the ages at which enrollment is universal, defined as an enrollment rate of over 90 percent. The rectangular box encasing some ages represents the range of ages at which enrollment is compulsory, or required by law. The expected duration of a first university degree program, a bachelor’s degree program in the United States, is listed in the note below each chart. On the right side of each chart are the years of schooling (“grade,” in the United States) corresponding to each level of education. The first year of schooling corresponds to the first year of compulsory education. The ages and years listed assume normal progress through the education system.

ISCED Levels

The ISCED is a classification framework that allows for the alignment of the content of education systems using multiple classification criteria. The ISCED levels address the intent (e.g., to study basic subjects or prepare students for university) of each year of a particular education system, but do not indicate the depth or rigor of study in that year. Thus, the ISCED is useful when comparing the age range of students in upper secondary schools across nations; however, it does not indicate whether the curriculum and standards are equivalent within the same year of schooling across nations. The ISCED allows researchers to compile statistics on education internationally. The ISCED levels are as follows:

- ISCED level 0 is classified as primary education. This is defined as the initial stage of organized instruction, designed primarily to introduce very young children to a school-type environment. ISCED level 0 programs can either be center or school based. Preschool and kindergarten programs in the United States fall into the level 0 category, although kindergarten is typically considered an elementary grade in the United States.
- ISCED level 1 consists of primary education, which usually lasts 4 to 6 years. ISCED level 1 typically begins between ages 5 and 7, and is the stage where students begin to study basic subjects, such as reading, writing, and mathematics. In the United States, elementary school (grades 1 through 6) is classified as level 1.
- At ISCED level 2, or lower secondary education, students continue to learn the basic subjects taught in level 1, but this level is typically more subject specific than level 1 and may be taught by specialized teachers. ISCED level 2 usually lasts between 2 and 6 years, and begins around the age of 11. Middle school and junior high (grades 7 through 9) in the United States are classified as level 2.
- At ISCED level 3, or upper secondary education, student coursework is generally subject specific and often taught by specialized...
teachers. Students often enter upper secondary education at the age of 15 or 16 and attend anywhere from 2 to 5 years. ISCED level 3 can prepare students for university, further schooling, or the labor force. Senior high school (grades 9 through 12) is considered level 3 in the United States.

- ISCED level 4 programs consist of postsecondary nonterminary programs. Postsecondary nonterminary programs are primarily vocational and are taken after the completion of secondary school, though the content is not more advanced than the content of secondary school courses. Although not included in the charts, postsecondary nonterminary programs are described in the text. ISCED level 4 programs in the United States are often in the form of 1-year certificate programs.

- Tertiary programs\(^1\) are divided into ISCED levels 5A, 5B, and 6. ISCED level 5A refers to academic higher education below the doctoral level. Level 5A programs are intended to provide sufficient qualifications to gain entry into advanced research programs and professions with high skill requirements. The international classification includes programs of medium length that last less than 5 years and long programs that last 5 to 7 years. In the United States, bachelor’s, master’s, and first professional degree programs are classified as ISCED level 5A. ISCED level 5B refers to vocational higher education. Level 5B programs provide a higher level of career and technical education and are designed to prepare students for the labor market. In the international classification, these programs last 2 to 4 years. ISCED level 6 refers to the doctoral level of academic higher education. Level 6 programs usually require the completion of a research thesis or dissertation.

The “NOTE” heading in each section presents information that is important, but that may not be included in either the chart or the bulleted text, including within-country variations or features of the education system that are unique to a particular country.

**Websites with Additional Information**

- Canada: [http://www.statcan.ca/english/freepub/81-582-XIE/free.htm](http://www.statcan.ca/english/freepub/81-582-XIE/free.htm) (see appendix 3)
- France: [http://www.eurydice.org/portal/page/portal/Eurydice](http://www.eurydice.org/portal/page/portal/Eurydice) (see France)
- Germany: [http://www.eurydice.org/portal/page/portal/Eurydice](http://www.eurydice.org/portal/page/portal/Eurydice) (see Germany)
- Italy: [http://www.eurydice.org/portal/page/portal/Eurydice](http://www.eurydice.org/portal/page/portal/Eurydice) (see Italy)
- Russian Federation: [http://www.euroeducation.net/prof/russco.htm](http://www.euroeducation.net/prof/russco.htm)
- Scotland: [http://www.eurydice.org/portal/page/portal/Eurydice](http://www.eurydice.org/portal/page/portal/Eurydice) (see United Kingdom: Scotland)
- United States: [www.ed.gov/international/edus](http://www.ed.gov/international/edus)

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\(^1\)In the international classification, more advanced postsecondary education (such as attending a 4-year college or university) is referred to as tertiary education. In the current report, the term “higher education” is used because this term is more familiar to American readers.
THE EDUCATION SYSTEM IN CANADA

NOTE: There are differences within the education system of Canada due to responsibilities and oversight for education taking place at the regional or local level. However, the purpose of this document is to present a brief, general summary of education in Canada. Thus, some differences within the education system of Canada may not be discussed here. The sources cited at the end of this section provide more specific details about education in Canada.

**Preprimary:**
- **Common name:** Preschool, pre-elementary, kindergarten
- **Ages of attendance:** As early as age 4 to age 5
- **Number of years:** 1 to 2
- **Start of universal enrollment:** Does not begin in preprimary; see below
- **Compulsory:** Generally no, but yes in some provinces

NOTE: One-year pre-elementary programs are available to Canadian children in all provinces. In some provinces, an additional 1 or 2 years of pre-elementary programs are offered.

**Primary:**
- **Common name:** Elementary school
- **Ages of attendance:** 6 to 11
- **Number of years:** 6
- **Start of universal enrollment:** Age 6
- **Universal enrollment:** Yes
- **Compulsory:** Yes

NOTE: Elementary school can begin at age 6 or 7 in Canada, depending on the jurisdiction. Based on the ISCED, the first 6 years of formal schooling are considered primary school, although in some jurisdictions primary school can last for up to 8 years.

**Lower secondary:**
- **Common name:** Middle school, intermediate school, junior high school, secondary school
- **Ages of attendance:** 12 to 14
- **Number of years:** 2 to 3
- **Universal enrollment:** Yes
- **Compulsory:** Yes
- **Entrance/exit criteria:** No

NOTE: Based on the ISCED, the 3 years of schooling following primary school are classified as lower secondary school in Canada. Students may attend 2- or 3-year junior high schools or middle schools, or they may go directly to a secondary school that includes both lower and upper secondary school.
Upper secondary:
- Common name: *High school, senior high school, secondary school*
- Ages of attendance: 15 to 17 (graduation generally at age 18)
- Number of years: 3
- Universal enrollment: Through age 17
- Compulsory: Until age 16 in most jurisdictions; until 18 or graduation in New Brunswick
- Entrance/exit criteria: Some provinces have what could be considered an exit exam (e.g., Ontario administers a grade 10 literacy test, and Quebec requires that students take core subject exams, which are a significant part of the graduation requirements).

NOTE: Based on the ISCED, the last 3 years of schooling prior to receiving a high school diploma are classified as upper secondary school in Canada. Senior high schools may be up to 4 years in length, and many students attend secondary schools that include both lower and upper secondary school programs.

Postsecondary and tertiary:
- Common name: *College, regional college, university college, university*
- Ages of attendance: Varies
- Number of years: Varies according to degree
- Universal enrollment: No
- Entrance criteria: Graduation from a secondary school academic or university preparatory program—or, in the case of Quebec, completion of a 2-year pre-university program—is typically the minimum requirement to be eligible for admission to undergraduate degree programs. However, most institutions and/or departments set their own admissions standards, often with more rigorous requirements.

Common degree programs:
- Pre-university programs: 2-year programs that students in Quebec are generally required to complete before they are eligible to attend university.
- Certificate: 1-year programs offered at colleges, regional colleges, community colleges, institutes, and colleges of applied arts and technology (the name depends on the jurisdiction).

These programs are vocational and are oriented toward preparing students for the labor force in semiprofessional and technical fields.
- Diploma: 2- to 3-year programs offered at community colleges, regional colleges, etc. These programs are vocational and are oriented toward preparing students for the labor force in semiprofessional and technical fields.
- Bachelor’s degree: 3- to 4-year academic programs at a university college or university. (University bachelor’s degree programs are usually 4 years, while university college programs can be 3 or 4 years.)
- Master’s degree: Graduate programs at a university requiring 1 to 2 years beyond the bachelor’s degree. This degree is designed to prepare students for professional careers.
- Doctorate: Academic graduate programs at a university requiring 3 to 5 years after the bachelor’s degree. Doctoral programs prepare students for careers in research.

Sources


THE EDUCATION SYSTEM IN FRANCE

Figure A-2. Levels of education in France, by age and year of schooling: 2006

Preprimary:
- Common name: École maternelle
- Ages of attendance: As early as age 2 to age 5
- Number of years: 1 to 4
- Start of universal enrollment: Age 3 (see indicator 2)
- Compulsory: No

Primary:
- Common name: École élémentaire
- Ages of attendance: 6 to 10
- Number of years: 5
- Universal enrollment: Yes
- Compulsory: Yes

Lower secondary:
- Common name: Collège
- Ages of attendance: 11 to 14
- Number of years: 4
- Universal enrollment: Yes
- Compulsory: Yes

Upper secondary:
- Common name: Lycée
  - Enseignement professionnel—Vocational upper secondary school
  - Enseignement technologique—Technological upper secondary school
  - Enseignement général—Academic upper secondary school
- Ages: 15 to 17 (graduation generally at age 18)
- Number of years: 3
- Universal enrollment: Through age 17 (see indicator 2) (most students turn 18 during the last year of upper secondary school)
- Compulsory: Until age 16
- Entrance/exit criteria: In order to enter upper secondary education, students must pass the brevet des collèges. Students take a national examination, the baccalauréat, during the last year of secondary school, which determines entrance to university.

Entrance/exit criteria: Yes; brevet des collèges is the exit exam for lower secondary. It is a national examination, which determines whether or not students will be able to attend lycée.

NOTE: Ages represent the typical age at the beginning of the school year. Numbers in bold print indicate ages of universal enrollment (i.e., an enrollment rate of over 90 percent). Numbers shaded represent the age at which compulsory enrollment begins through the age at which compulsory enrollment ends. In some countries, enrollment rates may fall below universal before the ending age of compulsory education. No meaning should be inferred from width of subdivisions. Duration of first university degree program is generally 4 years in France.

NOTE: All three types of upper secondary school (enseignement professional, technologique, and general) qualify a student to enter university, although certain tracks are more likely to lead to university: the academic branch (enseignement general) typically leads to university and other forms of higher education; the technological branch (enseignement technologique) may also lead to specialized technological or professional forms of higher education; and the vocational branch (enseignement professional) more often leads to the labor force and/or job training.

Postsecondary and tertiary:
- Common name: IUT, STS, université, grande école
- Ages of attendance: Varies
- Number of years: Varies according to degree or program
- Universal enrollment: No
- Entrance criteria: In order to enter into higher education programs in France, students are required to have passed the baccalauréat or an equivalent. Entrance to the university is nonselective, meaning that students who have passed the baccalauréat are entitled to enter. There are, however, competitive entrance exams for the grandes écoles.

Common programs (short fields):
- **DUT** (University degree in technology): Taken at the University Institute of Technology (IUT). Two-year program in mostly vocational subjects. Student may choose to continue on toward a license (see following section).
- **BTS** (Higher technical diploma): Two-year program taken in higher education departments of lycées (STS, Institute for Higher Technical Studies); more specialized than degrees from IUT, but also in mostly vocational subjects.
- **DEUG** (General university studies degree): Academic degree received after completion of 2 years of university.

Common degree programs (long fields):
- **License**: DEUG (see above) plus 1 additional year at university.
- **Maîtrise**: Degree following the license. Requires 1 additional year at university.
- **DESS** (Diploma of specialized higher studies): Follows the maîtrise; 1-year professional course involving a required internship.
- **DEA** (Diploma of advanced studies): Follows the maîtrise; 1-year program designed to prepare students for doctoral research. Involves the preparation of a research project.
- **Medical doctor/dental/pharmacy**: Degree programs taken at the university. Length of program varies and can lead to degrees such as the doctorat de médecine spécialisé, doctorat de médecine générale, and doctorat pharmacie.
- **Doctorat**: Research-based graduate degree program at a university, leading to a doctorate. Usually requires 5 years of study beyond the maîtrise.
- **Diplôme grand école**: Competitive degree programs (students must pass a selective entrance exam) in academic subjects, science, commerce, management, engineering, business, and architecture. These are typically 5-year programs and are taken at the grandes écoles.

Sources
THE EDUCATION SYSTEM IN GERMANY

Figure A-3. Levels of education in Germany, by age and year of schooling: 2006

NOTE: There are differences within the education system of Germany due to responsibilities and oversight for education taking place at the regional or local level. However, the purpose of this document is to present a brief, general summary of education in Germany. Thus, some differences within the education system of Germany may not be discussed here. The sources cited at the end of this section provide more specific details about education in Germany.

Preprimary:
- Common name: Kindergarten
- Ages of attendance: As early as age 3 to age 5
- Number of years: 1 to 3
- Start of universal enrollment: Does not begin in preprimary; see below
- Compulsory: No
NOTE: Students may attend preprimary programs in a few schools at age 2.

Primary:
- Common name: Grundschule
- Ages of attendance: 6 to 9
- Number of years: 4
- Start of universal enrollment: Age 6 (see indicator 2)
- Compulsory: Yes

Lower secondary:
- Common name:
  - Hauptschule—General secondary school
  - Realschule—Enhanced general education secondary school
  - Gymnasium—Academic secondary school
  - Gesamtschule—Integrated secondary school, meaning that students are not split into separate general education and academic tracks
- Ages of attendance: 10 to 15
- Number of years: 5 to 6
- Universal enrollment: Yes
- Compulsory: Yes
- Entrance/exit criteria: In some Länder, admissions tests determine if a student can take the education tracks of Realschule or Gymnasium.

NOTE: There are different types of secondary schools, some combining Hauptschule and Realschule. The secondary school a student attends in Germany is determined by a combination of factors, depending on the Länder: admissions tests, previous grade point average, teacher recommendations, and parents' wishes. The degree of flexibility that a parent has in choosing which educational track their child enters also varies between regions.

However, the type of school a student attends is sometimes less important than the chosen track: at the end of lower secondary, all students who meet the requirements receive a leaving certificate. At the Hauptschule it is generally the Hauptschulabschluss, but students who excel may receive a Realschulabschluss (called the Mittlere Schulabschluss in some Länder). At the Realschule, students typically receive the Realschulabschluss; at the Gesamtschule, both types of diplomas are offered. All students attending Gymnasium who advance to the upper secondary level automatically receive the Realschulabschluss.

Some Länder also have an orientation phase during the first 2 years of lower secondary school, which gives parents and teachers 2 more years to decide a child's educational path. In Länder with a 6-year primary school, lower secondary school is 2 years shorter.

Upper secondary:

- **Common name:**
  - Berufsschule—3- to 4-year vocational school, which often includes an apprenticeship; many students at this school attend part time while also doing an apprenticeship.
  - Berufsfachschule—1- to 3-year full-time basic vocational school
  - Fachoberschule—2-year advanced vocational school
  - Gymnasium/Gymnasiale Oberstufe—Academic upper secondary school. Gymnasium continues from lower secondary school. Gymnasiale Oberstufe follows the same curriculum as the Gymnasium, but comes after Gesamtschule.
  - Ages: 16 to 18 (graduation generally at 19 for academic programs; 18 or 19 for others)
  - Number of years: 1 to 4
  - Universal enrollment: Through age 17 (see indicator 2) [most students in long programs turn 19 during the last year of upper secondary school]
  - Compulsory: Until age 18
  - Entrance/exit criteria: Students pass the Abitur in order to enter university and other forms of higher education.

NOTE: Gymnasium and Gesamtschule are generally combined lower and upper secondary schools, although students concentrate their studies on fewer subjects during the last years of Gymnasium. Some Länder offer fast tracks, where students can graduate from Gymnasium a year early. Additionally, a few Länder offer the Berufsbildungsschule, a vocational upper secondary school for those who have completed vocational training or have 5 years of work experience.

Postsecondary and tertiary:

- **Common name:** Berufsausbildung, Fachhochschule, Universität
- **Ages of attendance:** Varies
- **Number of years:** Varies according to degree
- **Universal enrollment:** No
- **Entrance criteria:** Students must pass the Abitur in order to enter university. Students must have at a minimum a Fachhochschulreife (vocational upper secondary diploma) in order to enter the tertiary sector.

Common degree programs:

- **Diplom Fachhochschule—FH:** 4-year degree program in applied fields such as engineering, administration, social services, and design. Admission to a Fachhochschule is competitive due to restricted numbers of available spaces.
- **Diplom Berufsausbildung—BA:** 3-year program of academic training combined with work experience. Offered at a Berufsausbildung.
- **Diplom: Master's degree equivalent usually requiring a minimum of 4 years of study. Universität offers this degree in academic fields as well as scientific, technical, and engineering fields.
- **Magister:** Usually requires 2 years beyond the Diplom, taken at Universität.
- **Doktorgrad:** Doctoral degree program, focused on research and taken at Universität. Normally requires at least 2 years beyond the Magister, but some students attend after receiving a Diplom.

Sources


THE EDUCATION SYSTEM IN ITALY

Figure A-4. Levels of education in Italy, by age and year of schooling: 2006

NOTE: Ages represent the typical age at the beginning of the school year. Numbers in bold print indicate ages of universal enrollment (i.e., an enrollment rate of over 90 percent). Numbers shaded represent the age at which compulsory enrollment begins through the age at which compulsory enrollment ends. In some countries, enrollment rates may fall below universal before the ending age of compulsory education. No meaning should be inferred from width of subdivisions. Duration of first university degree program is generally 5 years in Italy.


Preprimary:
- Common name: Scuola dell’infanzia
- Ages of attendance: As early as age 3 to age 5
- Number of years: 1 to 3
- Start of universal enrollment: Age 3 (see indicator 2)
- Compulsory: No

Primary:
- Common name: Scuola primaria
- Ages of attendance: 6 to 11
- Number of years: 5
- Universal enrollment: Yes
- Compulsory: Yes

Lower secondary:
- Common name: Scuola secondaria di primo grado
- Ages of attendance: 11 to 14
- Number of years: 3
- Universal enrollment: Yes

Upper secondary:
- Compulsory: Yes
- Entrance/exit criteria: Yes, there is a national exit examination, which students must pass to obtain the diploma di esame di stato conclusivo del primo ciclo di istruzione and enter into upper secondary school.
- Common name: Scuola secondaria di secondo grado
  - Istituti d’arte, liceo artistico—Fine arts schools and institutes
  - Istituti professionali—Vocational schools
  - Istituti tecnici—Specialized technical schools
  - Liceo classico, scientifico, linguistico, socio-psico-pedagogico—Academic upper secondary schools
- Ages of attendance: 14 to 18 (graduation generally at age 19)
- Number of years: 5
- Universal enrollment: Through age 15 (see indicator 2)
- Compulsory: Beginning in the 2004–05 school year, upper secondary education was classified as a “right and a duty.” This terminology is used to indicate that completing upper secondary education is expected, although not required by law.
• Entrance/exit criteria: Students must possess the diploma di esame di stato conclusive del primo ciclo di istruzione from lower secondary school to enter upper secondary school. At the end of 5 years of instruction, students must pass a national exam in order to obtain a diploma di superamento dell’esame di stato.

NOTE: Every student who has completed 5 years of upper secondary school and has obtained a diploma di superamento dell’esame di stato may attend university and other forms of higher education. Students are tracked in academic as well as technical and vocational schools in Italy. Students in Italy may attend specialized art schools, such as istituti d’arte and liceo artistico at the upper secondary level. Students attending vocational schools may attend 3- or 5-year training or apprenticeship programs in applied fields, after which they often enter the labor force. Liceo linguistico focuses on modern foreign languages and cultures. The liceo classico and scientifico prepare students for university studies. Liceo-classico focuses on literature, philosophy, and Latin and Greek languages. Liceo scientifico focuses on mathematics and science. Liceo socio-psico-pedagogico has a sociological, psychological, and pedagogical orientation.

Postsecondary and tertiary:

• Common name: Accademia, scuola diretta a fini speciali, università
  » Alta formazione artistica e musicale–Arts and music
  » Scuole superiori per la mediazione linguistico–Language mediation
  » Istruzione e formazione tecnica superiore–Technical education and training
  » Laurea, laurea specialistica, dottorato di ricerca, diploma di specializzazione–Academic higher education, university

• Ages of attendance: Varies
• Number of years: Varies according to degree program
• Universal enrollment: No

• Entrance criteria: In order to enter university, students must possess a diploma di superamento dell’esame di stato, a secondary school diploma obtained after passing a national exam. Some students may also enter university with a regional certificate, which is issued on the basis of professional experience in a vocational field.

NOTE: The higher education system in Italy underwent a reform process in order to make it more compatible with the higher education systems of other European countries. Universities are now based on two main cycles (the 3-year foundation degree, or laurea, followed by a 2 year specialist degree, or laurea specialistica / magistrale), with third-cycle degree options (dottorato di ricerca, diploma di specializzazione) that are similar to a doctorate in the United States. These changes were made to increase educational exchange between Italy and other European Union countries.

Common degree programs:

• Accademia degrees: Fine arts, restoration, and music degrees. Accademia degrees have been divided into two cycles according to the recent reforms, the first one taking 3 years to complete and the second one taking 2 years to complete. The diploma accademico di primo livello is awarded after the first cycle, and the diploma accademico di secondo livello is awarded after the second cycle.

• Laurea: A first-level university degree taking 3 years from university entry to complete. It is characterized by both theoretical and applied studies, similar to a bachelor’s degree in the United States.

• Laurea specialistica / magistrale: Graduate specialized degree requiring 2 years of university study after a first-level degree, similar to a master’s degree in the United States.

• Master universitario di primo livello: A professional graduate program requiring at least 1 year of study after obtaining a laurea.

• Master universitario di secondo livello: A professional graduate program requiring at least 1 year of study after obtaining a laurea specialistica / magistrale.

• Dottorato di ricerca: Doctoral degree program focusing on research and taken at a university. Typically requires 3 years of instruction after the laurea specialistica / magistrale.

• Diploma di specializzazione: Doctoral degree program for a specialized professional degree, such as medicine or law. Typically requires 2–6 years after the laurea specialistica / magistrale.

Sources


THE EDUCATION SYSTEM IN JAPAN

Figure A-5. Levels of education in Japan, by age and year of schooling: 2006

Preprimary:
- Common name: Hoikuen, yochien
- Ages of attendance: As early as age 3 to age 5
- Number of years: 1 to 3
- Start of universal enrollment: Age 4 (see indicator 2)
- Compulsory: No

NOTE: Around 60 percent of 5-year-old students attend yochien (kindergarten), while others attend hoikuen (child care centers).

Primary:
- Common name: Shogakkou
- Ages of attendance: 6 to 11
- Number of years: 6
- Universal enrollment: Yes
- Compulsory: Yes

NOTE: Currently, unified lower and upper secondary schools (chutoukyoikugakkou) have been introduced in Japan.

Lower secondary:
- Common name: Chugakkou
- Ages of attendance: 12 to 14
- Number of years: 3
- Universal enrollment: Yes

Upper secondary:
- Common name: Koutougakkou
- Ages of attendance: 15 to 17 (graduation generally at age 18)
- Number of years: 3
- Universal enrollment: Through age 17 (see indicator 2)
- Compulsory: No
- Entrance/exit criteria: Yes, students in Japan are placed into upper secondary schools based on test scores and school report cards from lower secondary school. Scoring well influences students' chances of attending the most prestigious upper secondary schools in their area.

NOTE: Juku refers to “cram school” or night school, which prepares students for upper secondary school entrance exams. Students may also choose to attend vocational/technical institutes (koutousenmongakkou), which combine upper secondary school with vocational higher education leading to the associate's degree. See below for details on koutousenmongakkou.

NOTE: Ages represent the typical age at the beginning of the school year. Numbers in bold print indicate ages of universal enrollment (i.e., an enrollment rate of over 90 percent). Numbers shaded represent the age at which compulsory enrollment begins through the age at which compulsory enrollment ends. In some countries, enrollment rates may fall below universal before the ending age of compulsory education. No meaning should be inferred from width of subdivisions. Duration of first university degree program is generally 4 years in Japan.

Postsecondary and tertiary:
- Common name: Tankïdaigaku, koutousenmongakkou, daigaku
- Ages of attendance: Varies
- Number of years: 2 (tankïdaigaku), 3 (koutousenmongakkou), 4 (daigaku, excluding medical and dental degrees), 6 (daigaku, medical and dental degrees)
- Universal enrollment: No
- Entrance criteria: To enter national universities, most of the students take an entrance examination offered by the National Center for University Entrance Examinations and an examination conducted by the university itself. For some universities, entrance examinations are very competitive, while others are not so competitive.

Common degree programs:
- Jun-gakushi (at vocational and technical institutes): 5-year programs for students to combine upper secondary school with vocational training. The first 3 years of these programs are spent at the upper secondary level and the last 2 earning a jun-gakushi (associate's degree). These programs are given at koutousenmongakkou, in subjects like public works, mechanical engineering, and information technology.
- Jun-gakushi (at junior college): Programs normally requiring 2 years of study, taken at junior colleges (tankïdaigaku), that prepare students for a career in fields like home economics, humanities, education, and social science. Junior colleges have traditionally enrolled mostly women.
- Gakushi: Academic degree normally requiring 4 years of study that is similar to a bachelor's degree. Given at a daigaku (college or university). Preprofessional programs in medicine, dentistry, and veterinary medicine take 6 years.
- Shushi: Graduate program taken at a daigaku that normally requires 2 years of study beyond the bachelor's degree. Equivalent to a master's degree in the United States.
- Professional degree programs: Medical, dental, and veterinary graduate programs taken at daigaku that last 4 years beyond the bachelor's degree.
- Hakushi: Academic graduate program at a daigaku requiring at least 5 years beyond the bachelor's degree. This degree is the equivalent of a doctorate in the United States.

Sources
THE EDUCATION SYSTEM IN THE RUSSIAN FEDERATION

Figure A-6. Levels of education in the Russian Federation, by age and year of schooling: 2006

Preprimary:
- Common name: *Doshkolnoe obrazovanie*
- Ages of attendance: As early as age 3 to age 6
- Number of years: 1 to 4
- Start of universal enrollment: Does not begin in preprimary; see below
- Compulsory: No

Primary:
- Common name: *Nachal’noje obshchee obrazovanie*
- Ages of attendance: 7 to 10
- Number of years: 4
- Start of universal enrollment: Age 7 (see indicator 2)
- Compulsory: Yes

NOTE: There are no formal divisions between primary, lower secondary, and upper secondary schools in the Russian Federation. Primary, lower secondary, and upper secondary schools are generally located in the same buildings except in rural areas.

Lower secondary:
- Common name: *Osnovnoe obshchee obrazovanie* (Basic school)
- Ages of attendance: 11 to 15
- Number of years: 5
- Universal enrollment: Yes, through age 14 (see indicator 2) (most students turn 16 during the last year of lower secondary school)
- Compulsory: Yes, until age 15
- Entrance/exit criteria: Yes, in order to graduate from basic school, students must pass four written examinations: one in Russian language, one in algebra, and two in other subjects chosen by the student.

NOTE: Basic general education includes primary and lower secondary school. Graduates of lower secondary school may either continue their education at upper secondary school to receive secondary complete general education, go to vocational schools to receive professional training, or go to secondary vocational schools to receive a combination of academic and vocational education.

APPENDIX A: THE EDUCATION SYSTEMS OF THE G-8 COUNTRIES

Upper secondary:
- Common name: Professional’no-technicheskie uchilische; kolley, professional’ny litsei, or technikum; srednee (polnoe) obshchee obrazovanie
- Ages of attendance: 16 to 17 (graduation generally at age 18)
- Number of years: 2
- Universal enrollment: No
- Compulsory: No
- Entrance/exit criteria: Students in the Russian Federation must pass five written exams at the end of secondary school in order to obtain the Certificate of Secondary Complete General Education. These exams include Algebra and Calculus, Literature, and three other subjects chosen by the student.

NOTE: Students who have graduated from lower secondary school have the option to continue in three types of upper secondary schools:

- Professional’no-technicheskie uchilische: These schools provide professional education only in a program that usually lasts 2 years.
- Srednee (polnoe) obshchee obrazovanie: Students who wish to continue their academic training enter these upper secondary schools, which last for 2 years and provide students with a Certificate of Secondary Complete General Education. This certificate qualifies students to apply for entrance into higher education. Graduates may also continue their study in initial and secondary vocational schools.
- Kolledzh, professional’ny litsei, or technikum: These schools provide combined professional and academic programs that lead to a diploma (Certificate of Secondary Complete General Education). The programs are usually 3 or 4 years.

Postsecondary and tertiary:
- Common name: Kolledzh, technikum, universitet
- Ages of attendance: Varies
- Number of years: Varies according to degree
- Universal enrollment: No
- Entrance criteria: There are entrance exams, called vstupitelnoe ispytanie, to be accepted into university. The number of exams and the subject varies according to the department a student wishes to attend, although all students must take an exam in Russian language.

Common degree programs:
- Nonuniversity-level diploma: Obtained from kolledzh (colleges) and technikum (technical colleges). These diplomas are in applied or vocational fields and require 2 years of study after secondary school. Students may be able to enter university-level institutions after completing this degree and transfer some or all credits toward a bakalavr.
- Diploma o nepolnom vysshem obrazovanii (diploma of incomplete higher education): If students leave university after at least 2 years of study, they may ask for this diploma, which allows them to work in certain jobs that require some university experience but not a degree.
- Bakalavr (bachelor’s degree): Program requiring 4 years of university study.
- Magistr (master’s degree): Competitive 2-year program for students who have completed their bakalavr’s degree. Most require a year of research and a thesis.
- Diplom: This specialized diploma can be obtained either by completing 1 year of study beyond the bakalavr or by completing 5 to 6 years of continuous study after upper secondary school.
- Kandidat nauk: Students who hold a diplom or magistr are eligible to apply for these programs, which typically last for 3 years and require students to carry out independent research and defend a dissertation in public. Equivalent of a doctorate in the United States.
- Doktor nauk: This is the highest possible academic degree in the Russian Federation, for which there is no U.S. equivalent. This degree requires that a kandidat nauk gain reputation in his or her field of study, publish independent research, and have experience supervising undergraduates. A 3-year sabbatical is often taken to prepare research for the degree, although there is no specified length of time required to obtain it. The doktor nauk requires a public dissertation defense (in addition to the defense completed to obtain a kandidat nauk).

Sources


THE EDUCATION SYSTEM IN THE UNITED KINGDOM

The Education System in England, Northern Ireland, and Wales

Figure A-7. Levels of education in England, Northern Ireland, and Wales, by age and year of schooling: 2006

NOTE: There are differences within the education system of the United Kingdom due to responsibilities and oversight for education taking place at the regional or local level. However, the purpose of this document is to present a brief, general summary of education in the United Kingdom. Thus, some differences within the education system of the United Kingdom may not be discussed here. The sources cited at the end of this section provide more specific details about education in the United Kingdom.

Preprimary:
- Common name: Foundation stage, nursery school, reception class
- Ages of attendance: 3 to 4
- Number of years: 1 to 2
- Start of universal enrollment: Age 4 (see indicator 2)
- Compulsory: No

NOTE: Some students attend a “reception class” between nursery school and primary school. This is comparable to kindergarten in the United States, with academic activities, and provides a “bridge” between nursery school and key stage 1 for students who will achieve compulsory school age later in that academic year.

Primary:
- Common name: Key stages 1 and 2, infant school, junior school
- Ages of attendance: 5 to 10 (England and Wales), 4 to 10 (Northern Ireland)
- Number of years: 6 (England and Wales), 7 (Northern Ireland)
- Universal enrollment: Yes
- Compulsory: Yes

NOTE: The primary school years are divided into two stages. The first stage (key stage 1), which may be preceded by the reception class, is sometimes called infant school. It consists of the first 2 years (in England and Wales) or 3 years (in Northern Ireland) of primary school. The second stage (key stage 2) is often called junior school and encompasses the next 4 years of primary school.

Lower secondary:
- Common name: Key stage 3, comprehensive school, grammar school, secondary modern school

NOTE: In Northern Ireland, however, compulsory enrollment begins at age 4. In Northern Ireland, however, there are 14 years of schooling, with year 1 beginning at the preprimary level (age 4). Numbers in bold print indicate ages of universal enrollment (i.e., an enrollment rate of over 90 percent). Numbers shaded represent the age at which compulsory enrollment begins through the age at which compulsory enrollment ends. In some countries, enrollment rates may fall below universal before the ending age of compulsory education. No meaning should be inferred from width of subdivisions. Duration of first university degree program is generally 3 years in England, Northern Ireland, and Wales. SOURCE: Sen, A., Partelow, L., and Miller, D.C. (2005). Comparative Indicators of Education in the United States and Other G8 Countries: 2004 (NCES 2005-021). U.S. Department of Education. Washington, DC: National Center for Education Statistics.
Postsecondary and tertiary:
- Common name: Higher education (HE), college, university
- Ages of attendance: Varies
- Number of years: Varies according to degree
- Universal enrollment: No
- Entrance criteria: GCE Advanced levels (A level) or equivalent, such as the Vocational Certificate of Education or A level in applied subjects, are required for admittance into the tertiary sector.

Common degree programs:
- Certificates of higher education: 1-year vocational courses.
- Diploma: Short undergraduate programs, which vary in length, offered at colleges and universities.
- Foundation degree: Employment-related higher education qualification taking 2 years to complete and offered at colleges and universities.
- Bachelor’s degree: 3- to 4-year academic programs at colleges or universities. Most students opt for an honors degree, the requirements of which are specific to schools and departments. Honors degrees are an entrance requirement for most graduate programs.
- Advanced short degree: Short degree programs, which vary in length, for students who have already acquired a bachelor’s degree, for example, the postgraduate certificate of education. Courses offered are often professional development-oriented.
- Master’s degree: Usually a taught (as opposed to research) postgraduate degree offered at colleges and universities. One year or more beyond an honors bachelor’s degree.
- Professional degrees: Advanced degrees in professional fields such as engineering, accounting, medicine, and information science. Number of years required to complete varies.
- Doctorate: Research-oriented postgraduate degree. Minimum of 3 years in duration.

Sources


THE EDUCATION SYSTEM IN THE UNITED KINGDOM

The Education System in Scotland

Figure A-8. Levels of education in Scotland, by age and year of schooling: 2006

NOTE: The education system in Scotland is different from that which exists in the rest of the United Kingdom. Responsibility for education is held by the Scottish Parliament and the Scottish Executive Education Department (SEED).

Preprimary:
- **Common name:** Day nurseries, nursery classes, nursery school
- **Ages of attendance:** As early as age 3 to age 4
- **Number of years:** 1 to 2
- **Start of universal enrollment:** Age 4
- **Compulsory:** No

Primary:
- **Common name:** Primary school
- **Ages of attendance:** 5 to 11
- **Number of years:** 7
- **Universal enrollment:** Yes
- **Compulsory:** Yes

Lower secondary:
- **Common name:** Secondary school
- **Ages of attendance:** 12 to 15
- **Number of years:** 4
- **Universal enrollment:** Through age 16 (see indicator 2) (most students turn 16 during the last year of lower secondary school)
- **Compulsory:** Yes, until age 16
- **Entrance/exit criteria:** No restrictions on entrance. At the end of lower secondary education, students generally take the examinations for the Scottish Qualifications Certificate (SQC) at Standard Grade or National Qualifications courses/units. These examinations are intended to be taken by the whole school population.

Upper secondary:
- **Common name:** Secondary school, community education centre, further education college
- **Ages of attendance:** 16 to 17 (graduation generally at age 18)
- **Number of years:** 2
- **Universal enrollment:** Through age 16

Compulsory: No

Entrance/exit criteria: A unified system of National Qualifications exams has been introduced for students in secondary schools, further education colleges, and training centers. Students who plan to go into higher education take the higher level examinations of the SQC.

NOTE: During upper secondary school, students in Scotland have the option to continue in a traditional secondary school or to attend further education colleges. There are also nationally funded training and apprenticeship programs in which students can participate if they choose not to attend upper secondary school.

Postsecondary and tertiary:

- Common name: Further education college, university
- Ages of attendance: Varies
- Number of years: Varies according to course/degree
- Universal enrollment: No
- Entrance criteria: The usual entry requirements for university are the higher or advanced higher level examinations of the SQC (see above). Further education colleges admit students who have just left school at age 16, students who have left school at age 17 or 18 with and without formal certification, and are now admitting an increasing number of older students. Admission requirements at further education colleges are decided by the institution.

Common degree programs:

- Further education colleges provide mainly vocational education courses at the secondary level, but also have some higher education programs.
- Bachelor’s degree: Courses leading to an ordinary bachelor’s degree last 3 years, while courses leading to a degree with honors are typically 4 years. There are also some courses where the first award is a master’s degree.
- Master’s degree: Taught master’s degrees are typically 1-year programs, but research master’s degrees are generally longer. Entrance into a master’s program generally requires a bachelor’s degree.
- Professional degree programs: Programs leading to professional registration as a doctor, dentist, etc. Typically require 5 years beyond the bachelor’s degree.
- Doctorate: A doctorate generally requires 3 years of full-time study or 4 to 6 years if part time.

Sources


THE EDUCATION SYSTEM IN THE UNITED STATES

Figure A-9. Levels of education in the United States, by age and year of schooling: 2006

NOTE: Ages represent the typical age at the beginning of the school year. Numbers in bold print indicate ages of universal enrollment (i.e., an enrollment rate of over 90 percent). Numbers shaded represent the age at which compulsory enrollment begins through the age at which compulsory enrollment ends. In some countries, enrollment rates may fall below universal before the ending age of compulsory education. No meaning should be inferred from width of subdivisions. Duration of first university degree program is generally 4 years in the United States.


NOTE: There are differences within the education system of the United States due to responsibilities and oversight for education taking place at the regional or local level. However, the purpose of this document is to present a brief, general summary of education in the United States. Thus, some differences within the education system of the United States may not be discussed here. The sources cited at the end of this section provide more specific details about education in the United States.

Preprimary:
- Common name: Nursery school, prekindergarten, kindergarten
- Ages of attendance: As early as age 3 to age 5
- Number of years: 1 to 3
- Start of universal enrollment: Does not begin in preprimary; see below
- Compulsory: Generally no, but yes in some states

Primary:
- Common name: Elementary school, grade school
- Ages of attendance: 6 to 11
- Number of years: 6
- Start of universal enrollment: Age 6 (see indicator 2)
- Compulsory: Yes

NOTE: Based on the ISCED, the first 6 years of schooling are classified as primary in the United States. Students may attend 5- or 6-year elementary schools. Some students also attend elementary schools that include eight grades.

Lower secondary:
- Common name: Middle school, junior high school
- Ages of attendance: 12 to 14
- Number of years: 3
- Universal enrollment: Yes
- Compulsory: Yes
- Entrance/exit criteria: No

NOTE: Based on the ISCED, the 3 years of schooling following primary school are classified as lower secondary in the United States. Students may attend 2- or 3-year junior high schools or middle schools. Some students also attend combined junior-senior high schools.
Upper secondary:
- Common name: High school, senior high school
- Ages of attendance: 15 to 17 (graduation generally in the year of the student’s 18th birthday, though this can vary depending on a student’s birth date and the state’s kindergarten cut-off date)
- Number of years: 3
- Universal enrollment: Through age 16 (see indicator 2) (most students turn 18 during the last year of upper secondary school)
- Compulsory: The average ending age of compulsory education in the United States is 17 (see indicator 2). This age varies across states, ranging from 16 to 18; the modal age is 16
- Entrance/exit criteria: There are not generally entrance exams, although some states have begun instituting exit examinations that are required to receive a diploma. College-bound students usually take the Scholastic Aptitude Test (SAT) or ACT Assessment (ACT), privately administered standardized tests that partly determine college admittance. Admittance is also affected by previous grades, coursework, and other factors such as teacher recommendations and extracurricular participation.

NOTE: Based on the ISCED, the last 3 years of schooling prior to receiving a high school diploma are classified as upper secondary in the United States. Senior high schools may be 3 or 4 years in length. Some students attend combined junior-senior high schools.

Postsecondary and tertiary:
- Common name: Community college, college, university
- Ages of attendance: Varies
- Number of years: Varies according to degree
- Universal enrollment: No
- Entrance criteria: Varies according to degree. Students in the United States usually take the SAT or ACT (see above) as part of the entrance requirements for higher education. Most colleges and universities set their own admissions standards, so the requirements vary substantially from institution to institution.

Common degree programs:
- Certificate programs: Vocational programs of 6 months to 1 year offered in public community colleges and private for-profit trade schools.
- Associate’s degrees: 2-year programs offered in fields of study that prepare students for the labor force or entry into a 4-year college or university. Granted at vocational and technical institutions as well as community colleges.
- Bachelor’s degrees: 4-year academic programs at a college or university that prepare students for the labor force or graduate study.
- Master’s degrees: Graduate program at a university that requires 2 years of study beyond the bachelor’s degree and leads to a master’s degree.
- Professional degrees: Graduate programs such as medicine or law taken at a university medical or law school. Typically require 3 or more years beyond the bachelor’s degree and result in specialized degrees such as the Medical Doctorate (M.D.) or Juris Doctor (J.D.).
- Doctorate: Academic graduate program at a university typically requiring a minimum of 3 or 4 years of study and research beyond the bachelor’s degree.

Sources


