

# Class School

This class defines a `School` object.

Implements `IEnumerable` to allow `AcademicYear` objects inside the `School` object to be iterated through.

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## Inheritance

- `System.Object`
  - `School`

## Implements

`System.Collections.IEnumerable`

## Inherited Members

`System.Object.Equals(System.Object)`  
`System.Object.Equals(System.Object, System.Object)`  
`System.Object.GetHashCode()`  
`System.Object.GetType()`  
`System.Object.MemberwiseClone()`  
`System.Object.ReferenceEquals(System.Object, System.Object)`

**Namespace:** [SchoolReportSystem.model.classes](#)

**Assembly:** `SchoolReportSystem.dll`

## Syntax

```
public class School : IEnumerable
```

## 🔗 Constructors

### 🔗 `School(String, Int32)`

This custom constructor is responsible for creating a `School` object.

#### Declaration

```
public School(string name, int year)
```

#### Parameters

Type	Name	Description
<code>System.String</code>	<i>name</i>	The school name.
<code>System.Int32</code>	<i>year</i>	The year number.

#### Examples

```
School sl = new School("Portsmouth Secondary", 8);
```

This creates a `School` object with the name as "Portsmouth Secondary" and year as '8'.

### 🔗 `School(String, Int32, Int32)`

This alternate custom constructor is responsible for creating a `School` object.

#### Declaration

```
public School(string name, int first, int last)
```

#### Parameters

Type	Name	Description
System.String	<i>name</i>	The school name.
System.Int32	<i>first</i>	The lowest school year.
System.Int32	<i>last</i>	The highest school year

#### Examples

```
School sl = new School("Earlmount High", 7, 11);
```

This creates a School object with name as "Earlmount High", with years 7 to 11.

## Properties

### GetSchoolName

This method retrieves the school's name.

#### Declaration

```
public string GetSchoolName { get; }
```

#### Property Value

Type	Description
System.String	Returns the value of GetSchoolName.

#### Examples

```
School sl = new School("Earlmount High", 7, 11);  
sl.GetSchoolName;
```

This will return "Earlmount High".

### GetYears

This method retrieves the school years.

#### Declaration

```
public List<AcademicYear> GetYears { get; }
```

#### Property Value

Type	Description
System.Collections.Generic.List<AcademicYear>	Returns the value of GetYears.

#### Examples

```
School sl = new School("Earlmount High", 7, 11);  
sl.GetYears;
```

This will return {(7), (8), (9), (10), (11), (12), (13)}.

## Methods

### AddYear(AcademicYear)

This method stores a valid AcademicYear object into the School object.

#### Declaration

```
public void AddYear(AcademicYear y)
```

#### Parameters

Type	Name	Description
AcademicYear	<i>y</i>	AcademicYear object to be added to the school.

## Examples

```
School sl = new School("Nottingham Secondary", 13);
sl.AddYear(12);
```

Year 12 has been added to 'sl'.

## [AddYears\(Int32, Int32\)](#)

This method stores a range of valid AcademicYear objects into the School object, dependent on the 'min' and 'max' parameters.

### Declaration

```
public void AddYears(int min, int max)
```

### Parameters

Type	Name	Description
System.Int32	<i>min</i>	The minimum inclusive number value for the range.
System.Int32	<i>max</i>	The maximum inclusive number value for the range.

## Examples

```
School sl = new School("Berkshire High", 7, 8);
sl.AddYears(9, 13);
```

Years: 9, 10, 11, 12 and 13 have been added to 'sl'.

## [GetEnumerator\(\)](#)

This method returns the IEnumerator for the School class.

### Declaration

```
public IEnumerator GetEnumerator()
```

### Returns

Type	Description
System.Collections.IEnumerator	Returns the iteration of the non-generic collection for a School object.

## [GetYearByNo\(Int32\)](#)

This method retrieves the AcademicYear object which is equal to 'yearNo'.

### Declaration

```
public AcademicYear GetYearByNo(int yearNo)
```

### Parameters

Type	Name	Description
System.Int32	<i>yearNo</i>	

### Returns

Type	Description
<a href="#">AcademicYear</a>	Returns the year with the matching year number specified by the 'yearNo' parameter.

## Examples

```
School sl = new School("Midwest College", 9, 11);
sl.AddYears(12, 13);
```

sl.GetYearByNo(13); Year 13 will be returned.

## [ToString\(\)](#)

This method overrides the default 'ToString()' representation of the School class.

### Declaration

```
public override string ToString()
```

Returns

Type	Description
System.String	The string representation of the School object.

Overrides

System.Object.ToString()

Examples

```
School sl = new School("Holloway High", 7, 13);  
sl.ToString();
```

## Implements

System.Collections.IEnumerable