

Code Implementation:

```
// Base class
class Person {
    constructor(name, age) {
        this.name = name;
        this.age = age;
    }

    greet() {
        return `Hi, I'm ${this.name} and I'm ${this.age} years old.`;
    }
}

// Subclass Student
class Student extends Person {
    constructor(name, age, grade) {
        super(name, age);
        this.grade = grade;
    }

    greet() {
        return `${super.greet()} I'm a student in grade ${this.grade}.`;
    }

    study() {
        return `${this.name} is studying.`;
    }
}

// Subclass Teacher
class Teacher extends Person {
    constructor(name, age, subject) {
        super(name, age);
        this.subject = subject;
    }

    greet() {
        return `${super.greet()} I teach ${this.subject}.`;
    }

    teach() {
        return `${this.name} is teaching ${this.subject}.`;
    }
}

// Demonstration
const person = new Person('Alex', 30);
const student = new Student('Emily', 20, '12th');
const teacher = new Teacher('Mr. Smith', 45, 'Mathematics');
```

```
console.log(person.greet());           // Hi, I'm Alex and I'm 30 years old.  
console.log(student.greet());          // Hi, I'm Emily and I'm 20 years old. I'm a  
student in grade 12th.  
console.log(student.study());          // Emily is studying.  
console.log(teacher.greet());           // Hi, I'm Mr. Smith and I'm 45 years old. I  
teach Mathematics.  
console.log(teacher.teach());           // Mr. Smith is teaching Mathematics.  
  
console.log(student instanceof Person); // true  
console.log(teacher instanceof Student); // false
```