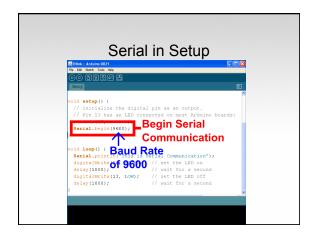
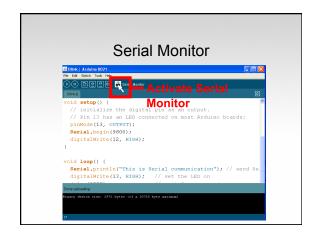
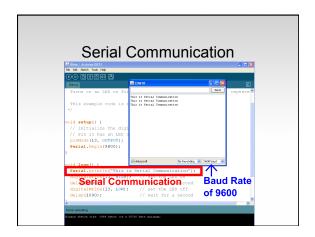


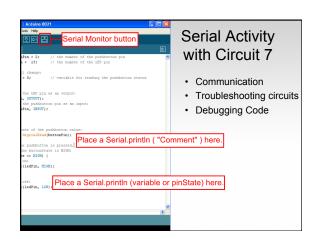
#### **Serial Communication**

Serial Communication is the transferring and receiving of information between two machines, the Arduino dedicates pin # 0 to receiving information and pin 1 to transferring information









# Serial Communication: Serial Setup

```
void setup () {
  Serial.begin ( 9600 ) ;
}
```

In this case the number 9600 is the baudrate at which the computer and Arduino communicate

### Serial Communication: Sending a Message

```
void loop () {
Serial.print ( "Constructivism & ");
Serial.println ( "Mechatronics");
}
```

## Serial Communication: Serial Debugging

```
void loop () {
int xVar = 10;
Serial.print( "Variable xVar is ");
Serial.println (xVar);
}
```

#### Serial Communication: Serial Troubleshooting

```
void loop () {
Serial.print ( "Digital pin 9 reads ");
Serial.println ( digitalRead ( 9 ) );
}
```

### Serial Communication: Circuit 7 code

```
void loop () {
buttonState = digitalRead(inputPin);
if (buttonState== HIGH){
    digitalWrite (ledPin, LOW)
    }
    else      {
        digitalWrite(ledPin, HIGH);
        Serial.print ("button state is ");
        Serial.println ( buttonState );
    }
}
```

#### Questions?

