CLASS ACTIVITIY_01

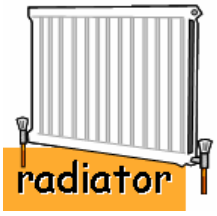
1 NAME AND SURNAMES:			GROUP:		
2 NAME AND SURNAMES:					
Day/Date	**Signatures**		**Day/Date**	**Signatures**	
1/	**Name1**	**Name2**	2/	**Name1**	**Name2**

The Jumble (box)

intro (10x0,15+5x0,2=2,5 points)

In this activity you are going to **explore** objects. Through your **observation** you will **distinguish** between objects and materials and learn that objects are made from materials. You will **describe** these materials with specific **characteristics** in order to connect the **use** of the object with these material's characteristics.

1) **Label** the following objects with these words: wood, metal, fabric, plastic and ceramic.

2) **Materials and their properties**. Read and fill in the blanks with a suitable word.

Object	**What it is used for**
frying pan	It is used for heating _____
Material it is made of	**Why is it a good choice?**
_____	Because it **conducts heat** well.

- Is **fabric** a good material for **keeping warm**? _____. I can use fabric to keep warm by:

			
Making a **blanket**	Making a **wool sweater**	… a	**A pair of sockets**

- Fabric is a (good/bad) _____ conductor of _____.

3) **Find** 5 objects in your **classroom** that are made, mainly, of one of the following 5 materials; **sketch** them and **label** them with their name (0,5 points).

wood	metal	plastic	fabric	stone or ceramic

objects and materials (1,5 points)

4) Walk **around our school** and look for 1 object you can **write about** in this grid:

Object:	**What it is used for**:	**The material it is made from**:

Sketch

Why this material is a good choice (connection with the use)?:

Because _____ (the material) is ---------- (property: rigid, soft, good conductor…). And besides (in addition) that, _____ (another reason).

picnic tables (2 point)

Picnic tables are designed for eating a meal outside. The first ones were used in public gatherings (meetings) throughout small towns in the 1800's. At that time, picnic tables were made of **wood**. Since that time, they have been made from stone, **concrete**, **metal**, and **plastic**.

5) Label the pictures below with the materials the picnic tables are made of:

6) Find, in our school, different objects (not from the classroom) people usually use for sitting. **Sketch** them and indicate the object's name and the **materials** they are made of:

your piece of material (4 points)

7) **Sketch** your piece of material and tell the **general type of material** (wood, metal…), **the specific material** (pine, steel…) and the object's name (2x0,2+6x01, points):

	object
	general material
	specific material
Sketch	material number:

8) What does your material **look like** (0,4 points)?

- Is it **raw** or **manufactured** materials? nº is
- Tell their **colour** and **size**: (big, small): nº is

9) Material: (nº) ___. How does it feel? Circle its **properties**.

- Can you bend it? **Stiff** (rigid) or **bendy** (flexible):
- Can you make a mark with your fingernail? Can you scratch it? **Hard** or **soft**.
- Does it crack (break) easily? **Brittle** (fragile) or **tough** (strong).
- Can you see (read) through it? **Transparent**, **translucent** or **opaque**.
- Can it be moved or lifted easily? **Heavy** or **light**.
- Does it stretch and return to shape? **Not stretchy** or **elastic**.
- Does it reflect light well? **Dull** or **shiny**.
- Can it absorb (soak up) **water**? **Absorbent** or **waterproof**.

✓ List the **8 properties** of your material (0,8 points)

10) *EXTRA POINT* What your material would **be good for?** Look at the example and complete the sentences (1 point):

Example: (nº 99) **Clay** (raw material) would be a good material for making a **brick** (technical material). I can use **bricks** to build a **wall** (product, good). We can find **walls** in **houses**, **schools**, **hospitals**, etc.

✓ Material (nº:) _____ (raw material) would be a good material for making a _____ (technical material). I can use _____ to build/make/… _____ (product, good). We can find _____ in _____, _____, etc.

01 egg carton
wood
recycled paper
molded pulp


☆ 1

02 napkin
wood
paper


☆ 2

03 food trays
plastic


☆ 3

04 cardboard box
wood
cardboard


☆ 4

09 CD
plastic
polycarbonate


☆ 9

10 strip
wood
pine


☆ 10

11 silicone glue stick
plastic
silicone
elastomer


☆ 11

12 electrical insulator
plastic
neoprene


☆ 12

16 can ring pull
metal
aluminium


☆ 17

17 gloves
plastic
rubber, latex
elastomer


☆ 18

18 piece of chalk
stone
gypsum


☆ 19

19 rubber band
plastic
rubber
elastomer


☆ 20

05 ball of yarn
fabric
wool


☆ 5

06 a cover for eggs
plastic
Polypropylene


☆ 6

07 plywood
wood
plywood


☆ 7

08 paper clips
metal
steel


☆ 8

13A clothes peg
wood
beech


☆ 13

13B clothes peg
plastic


☆ 14

14 wire (roll)
metal
tin


☆ 15

15 drinking straw
plastic


☆ 16

20 coin
metal
steel+copper


☆ 21

21 thread
fabric
esparto


☆ 22

22 gravel
stone
stone


☆ 23

22 stopper
cork/plastic
(it varies)


☆ 24