SDA: THE INTERACTION FUNCTION

LEVEL: 6º

Name: _____

Class: _____ Date: _____

Assessment instructions

- Read each activity carefully.
- Answer in English/Spanish using scientific vocabulary.
- Look at the pictures, analyse the information and explain your ideas.
- You can use complete sentences whenever necessary.

TASK 1. WHAT IS THE INTERACTION FUNCTION? 1 POINT

Read the text and complete the sentences.

"Living things interact with their environment. They receive information from inside and outside their bodies, process this information and produce a response.

In humans, the interaction function involves three main processes:

- *Receiving information through sensory receptors.*
- *Processing information through coordination systems.*
- *Producing responses through effectors."*

Complete the sentences using these words:

receptors – coordination – effectors – environment

1. Living things receive information from their _____.
2. Sensory _____ detect information.
3. The _____ systems process information.
4. Muscles and glands are examples of _____.

TASK 2. THE FIVE SENSES 1 POINT

Write your answers:

Match each sense organ with its function. 1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Sense organ	**Function**
1. Eyes	A. Detect sounds
2. Ears	B. Detect smells
3. Nose	C. Detect light and colours
4. Tongue	D. Detect temperatures and textures
5. Skin	E. Detect flavours

Challenge: Which sense organ helps you identify a hot object?

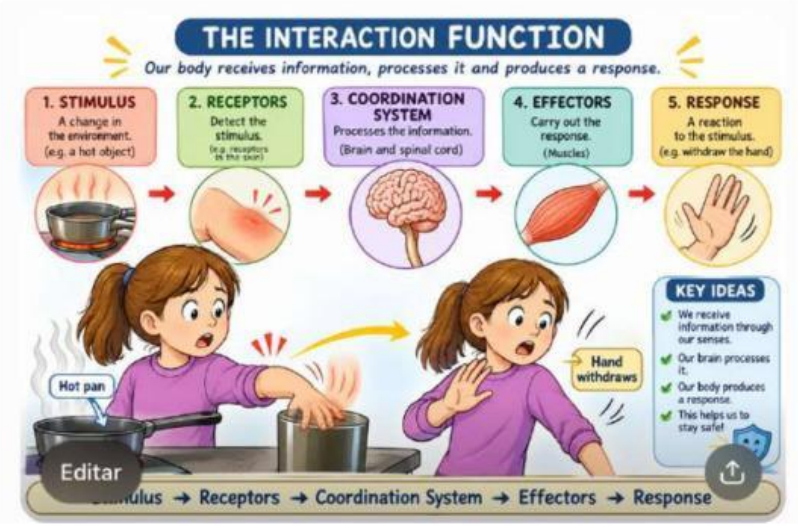
Answer: _____

LIVEWORKSHEETS

TASK 3. FOLLOW THE INFORMATION! 1 POINT

Read the situation.

"Emma touches a hot saucepan accidentally. She immediately moves her hand away".



Answer the questions.

1. What stimulus does Emma receive?

2. Which receptors detect the stimulus?

3. Which coordination system processes the information?

4. What is the response?

TASK 4. THE NERVOUS SYSTEM 1 POINT

Read the descriptions and identify the parts of the nervous system.

Use the words:

brain – spinal cord – nerves

1. It is protected by the skull and controls many body activities: _____.

2. It is protected by the vertebral column and connects the brain with the rest of the body: _____.

3. They carry information between the central nervous system and the rest of the body: _____.

Think and answer:

Why is the nervous system important?

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TASK 5. VOLUNTARY OR INVOLUNTARY? · 1 POINT

Read the situations and classify each response. Write V (voluntary) or I (involuntary).

Situation	V / I
1. You decide to raise your hand in class.	_____
2. Your pupils become smaller in bright light.	_____
3. You blink when something approaches your eyes.	_____
4. You decide to kick a football.	_____
5. Your heart beats faster when you run.	_____

Explain: Why don't we have to think about every heartbeat?

_____

_____

TASK 6. THE LOCOMOTOR SYSTEM 1 POINT

Complete the sentences with the correct words.

muscles – bones – joints – movement

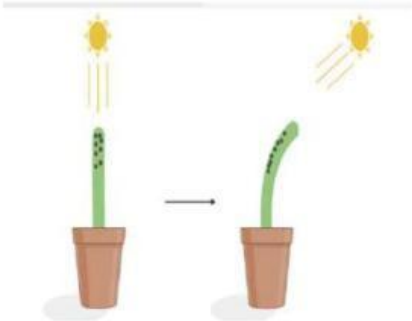
1. The _____ support our body and protect organs.
2. The _____ contract and relax to produce movement.
3. _____ connect two or more bones.
4. The locomotor system allows us to _____.

What happens to your muscles when you bend your arm?

_____

TASK 7. PLANTS ALSO INTERACT! 1 POINT

"Plants do not have a nervous system like humans, but they can respond to stimuli in their environment".



Look at the picture and answer.

1. What stimulus makes the plant grow towards one side? _____
2. What is this response called? _____
3. Why is this response useful for the plant? _____
4. Give another example of how a plant responds to a stimulus.

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TASK 8. SCIENCE IN EVERYDAY LIFE 1 POINT

Read the situation.

"Lucas is playing football. Suddenly, he sees the ball coming towards him. He moves his leg and kicks the ball".



Put the events in the correct order (1–4).

___ His muscles contract.

___ His eyes detect the ball.

___ His brain processes the information.

___ His nervous system sends a message to his muscles.

Explain: What would happen if Lucas could not receive information through his eyes?

_____

_____

TASK 9. SCIENTIFIC INVESTIGATION 1 POINT

Read the experiment.

"A teacher drops a ruler between two students' fingers. The student must catch it as quickly as possible."



Answer the questions.

1. What sense organ receives the visual stimulus?

_____

2. Which coordination system processes the information?

_____

3. Which body parts help catch the ruler?

_____

TASK 10. BECOME A SCIENCE EXPERT! · 1 POINT

Imagine you are a science teacher. A younger student asks you:

- **"How does the human body interact with the environment?"**

Write a short scientific explanation (between 50 and 70 words).

You must include these words: Stimulus- Receptors- Nervous system- Response- Muscles

My scientific explanation:

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