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Worksheet #2: Balancing Equations

Targets:
 • Balance correctly written skeletal equations
 For each of the following skeletal equations, write the correct coefficient in front of each formula to balance the equation. If it is already balanced, write "as is" in the left margin.

1. $\underline{\quad}$ $\text{KCl}_{(aq)} + \underline{\quad}$ $\text{AgNO}_{3(aq)} \rightarrow \underline{\quad}$ $\text{KNO}_{3(aq)} + \underline{\quad}$ $\text{AgCl}_{(s)}$
2. $\underline{\quad}$ $\text{Al}(\text{OH})_{3(s)} + \underline{\quad}$ $\text{NaNO}_{3(aq)} \rightarrow \underline{\quad}$ $\text{Al}(\text{NO}_3)_{3(aq)} + \underline{\quad}$ $\text{NaOH}_{(aq)}$
3. $\underline{\quad}$ $\text{Fe}_0 + \underline{\quad}$ $\text{CuSO}_{4(aq)} \rightarrow \underline{\quad}$ $\text{FeSO}_{4(aq)} + \underline{\quad}$ Cu_0
4. $\underline{\quad}$ $\text{Al}_0 + \underline{\quad}$ $\text{CuCl}_{2(aq)} \rightarrow \underline{\quad}$ $\text{AlCl}_{3(aq)} + \underline{\quad}$ Cu_0
5. $\underline{\quad}$ $\text{NaClO}_{3(s)} \rightarrow \underline{\quad}$ $\text{NaCl}_{(s)} + \underline{\quad}$ $\text{O}_{2(g)}$
6. $\underline{\quad}$ $\text{CaCO}_{3(s)} \rightarrow \underline{\quad}$ $\text{CaO}_{(s)} + \underline{\quad}$ $\text{CO}_{2(g)}$
7. $\underline{\quad}$ $\text{Zn}_0 + \underline{\quad}$ $\text{O}_{2(g)} \rightarrow \underline{\quad}$ $\text{ZnO}_{(s)}$
8. $\underline{\quad}$ $\text{Cl}_2 + \underline{\quad}$ $\text{Na}_0 \rightarrow \underline{\quad}$ $\text{NaCl}_{(s)}$
9. $\underline{\quad}$ $\text{Al}_2(\text{SO}_4)_{3(aq)} + \underline{\quad}$ $\text{BaCl}_{2(aq)} \rightarrow \underline{\quad}$ $\text{AlCl}_{3(aq)} + \underline{\quad}$ $\text{BaSO}_{4(s)}$
10. $\underline{\quad}$ $\text{NaHCO}_{3(s)} \rightarrow \underline{\quad}$ $\text{Na}_2\text{CO}_{3(s)} + \underline{\quad}$ $\text{CO}_{2(g)} + \underline{\quad}$ $\text{H}_2\text{O}_{(l)}$
11. $\underline{\quad}$ $\text{Al}(\text{NO}_3)_{3(aq)} + \underline{\quad}$ $\text{NaOH}_{(aq)} \rightarrow \underline{\quad}$ $\text{Al}(\text{OH})_{3(s)} + \underline{\quad}$ $\text{NaNO}_{3(aq)}$
12. $\underline{\quad}$ $\text{KNO}_{3(s)} \rightarrow \underline{\quad}$ $\text{KNO}_{2(s)} + \underline{\quad}$ $\text{O}_{2(g)}$
13. $\underline{\quad}$ $\text{C}_2\text{H}_6 + \underline{\quad}$ $\text{O}_{2(g)} \rightarrow \underline{\quad}$ $\text{CO}_{2(g)} + \underline{\quad}$ $\text{H}_2\text{O}_{(g)}$
14. $\underline{\quad}$ $\text{CaCO}_{3(s)} \rightarrow \underline{\quad}$ $\text{CaO}_{(s)} + \underline{\quad}$ $\text{CO}_{2(g)}$
15. $\underline{\quad}$ $\text{Li}_2\text{O} + \underline{\quad}$ $\text{H}_2\text{O} \rightarrow \underline{\quad}$ $\text{LiOH}_{(aq)} + \underline{\quad}$ H_2O
16. $\underline{\quad}$ $\text{O}_{2(g)} + \underline{\quad}$ $\text{CS}_{2(l)} \rightarrow \underline{\quad}$ $\text{CO}_{2(g)} + \underline{\quad}$ $\text{SO}_{2(g)}$

Period 1 quiz
 pop quiz
 period 5a

Balancing Equations Worksheet Chemistry Project

1. $\underline{2}$ $\text{NaNO}_3 + \underline{1}$ $\text{PbO} \rightarrow \underline{1}$ $\text{Pb}(\text{NO}_3)_2 + \underline{1}$ Na_2O
2. $\underline{6}$ $\text{AgI} + \underline{1}$ $\text{Fe}_2(\text{CO}_3)_3 \rightarrow \underline{2}$ $\text{FeI}_3 + \underline{3}$ Ag_2CO_3
3. $\underline{1}$ $\text{C}_2\text{H}_4\text{O}_2 + \underline{2}$ $\text{O}_2 \rightarrow \underline{2}$ $\text{CO}_2 + \underline{2}$ H_2O
4. $\underline{1}$ $\text{ZnSO}_4 + \underline{1}$ $\text{Li}_2\text{CO}_3 \rightarrow \underline{1}$ $\text{ZnCO}_3 + \underline{1}$ Li_2SO_4
5. $\underline{1}$ $\text{V}_2\text{O}_5 + \underline{5}$ $\text{CaS} \rightarrow \underline{5}$ $\text{CaO} + \underline{1}$ V_2S_5
6. $\underline{1}$ $\text{Mn}(\text{NO}_2)_2 + \underline{1}$ $\text{BeCl}_2 \rightarrow \underline{1}$ $\text{Be}(\text{NO}_2)_2 + \underline{1}$ MnCl_2
7. $\underline{3}$ $\text{AgBr} + \underline{1}$ $\text{GaPO}_4 \rightarrow \underline{1}$ $\text{Ag}_3\text{PO}_4 + \underline{1}$ GaBr_3
8. $\underline{3}$ $\text{H}_2\text{SO}_4 + \underline{2}$ $\text{B}(\text{OH})_3 \rightarrow \underline{\quad}$ $\text{B}_2(\text{SO}_4)_3 + \underline{\quad}$ H_2O
9. $\underline{1}$ $\text{S}_8 + \underline{8}$ $\text{O}_2 \rightarrow \underline{8}$ SO_2
10. $\underline{1}$ $\text{Fe} + \underline{2}$ $\text{AgNO}_3 \rightarrow \underline{1}$ $\text{Fe}(\text{NO}_3)_2 + \underline{2}$ Ag

CHEMISTRY WORKSHEET ON NAMING AND WRITING COMPOUNDS

1. NaCl	11. CaCl_2
2. KBr	12. MgCl_2
3. AlCl_3	13. FeCl_3
4. CuCl_2	14. NiCl_2
5. ZnCl_2	15. PbCl_2
6. SnCl_4	16. BiCl_3
7. FeCl_3	17. SnCl_4
8. AlCl_3	18. PbCl_2
9. CuCl_2	19. BiCl_3
10. ZnCl_2	20. SnCl_4

**Balancing Chemical Equations
Worksheet #2**

Balance the following reactions by adding coefficients where necessary.

- $5\text{C} + 2\text{SO}_2 \rightarrow \text{CS}_2 + 4\text{CO}$
- $2\text{ZnS} + 3\text{O}_2 \rightarrow 2\text{ZnO} + 2\text{SO}_2$
- $2\text{Na}_3\text{PO}_4 + 3\text{CaCl}_2 \rightarrow \text{Ca}_3(\text{PO}_4)_2 + 6\text{NaCl}$
- $\text{Al}_2(\text{SO}_4)_3 + 3\text{Ba}(\text{NO}_3)_2 \rightarrow 3\text{BaSO}_4 + 2\text{Al}(\text{NO}_3)_3$
- $4\text{Al} + 3\text{O}_2 \rightarrow 2\text{Al}_2\text{O}_3$
- $3\text{Ca} + 2\text{H}_3\text{PO}_4 \rightarrow \text{Ca}_3(\text{PO}_4)_2 + 3\text{H}_2$
- $2\text{Na}_2\text{SO}_3 + \text{O}_2 \rightarrow 2\text{Na}_2\text{SO}_4$
- $\text{C}_2\text{H}_5\text{O}_6 \rightarrow 2\text{C}_2\text{H}_5\text{OH} + 2\text{CO}_2$
- $\text{Na}_2\text{CO}_3 + 2\text{HCl} \rightarrow 2\text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$
- $4\text{NH}_3 + 5\text{O}_2 \rightarrow 4\text{NO} + 6\text{H}_2\text{O}$
- $\text{Al}_2(\text{SO}_4)_3 + 6\text{NaOH} \rightarrow 2\text{Al}(\text{OH})_3 + 3\text{Na}_2\text{SO}_4$
- $4\text{FeS}_2 + 11\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3 + 8\text{SO}_2$
- $3\text{Mg}(\text{OH})_2 + 2\text{H}_3\text{PO}_4 \rightarrow \text{Mg}_3(\text{PO}_4)_2 + 6\text{H}_2\text{O}$
- $2\text{C}_2\text{H}_2 + 5\text{O}_2 \rightarrow 4\text{CO}_2 + 2\text{H}_2\text{O}$
- $\text{Cl}_2\text{O}_7 + \text{H}_2\text{O} \rightarrow 2\text{HClO}_4$
- $\text{Ca}_3(\text{PO}_4)_2 + 3\text{H}_2\text{SO}_4 \rightarrow 3\text{CaSO}_4 + 2\text{H}_3\text{PO}_4$
- $\text{Al}_2\text{S}_3 + 6\text{H}_2\text{O} \rightarrow 2\text{Al}(\text{OH})_3 + 3\text{H}_2\text{S}$
- $3\text{Fe} + 4\text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + 4\text{H}_2$
- $\text{Al}_2\text{O}_3 + 6\text{HNO}_3 \rightarrow 2\text{Al}(\text{NO}_3)_3 + 3\text{H}_2\text{O}$
- $\text{Hg} + 2\text{NH}_4\text{I} \rightarrow \text{HgI}_2 + \text{H}_2 + 2\text{NH}_3$



Identifying reaction types and balancing chemical equations worksheet answers.

When we interact with a customer service representative that is not immediately accommodating, we might get angry. Relaxed breathing This is another technique that will be familiar to practitioners of mindfulness. For instance, you may have the rule "If I do not do something perfectly, I'm a complete failure." The fifth box is labeled "Maladaptive Coping Strategies" This is where you write down how well these rules are working for you (or not). Journaling This technique is a way to gather about one's moods and thoughts. For a list of other suicide prevention websites, phone numbers, and resources, see this website. Journal of Human Behavior in the Social Environment, 13(3), 51-66. Control fallacies This distortion involves feeling like everything that happens to you is either a result of purely external forces or entirely due to your own actions. Extended case formulation worksheet This worksheet builds on the last. We may consider this karma, and expect that karma will always immediately reward us for our good deeds. Psychiatrist Aaron Beck was the first to practice cognitive behavioral therapy. Next, ask yourself whether you are looking at all the relevant evidence or just the evidence that backs up the belief you already hold. On the right side is the final box, labeled "Consequences." This is where you write down what happened as a result of the behavior under consideration. It is intended to help the sufferer see that symptoms of panic are not dangerous, although they may be uncomfortable. Catastrophizing / Magnifying or Minimizing This distortion involves expecting that the worst will happen or has happened, based on an incident that is nowhere near as catastrophic as it is made out to be. Progressive muscle relaxation. So if you are struggling with negative automatic thoughts, please consider these tips and techniques and give them a shot. It also helps to ask yourself whether your thought may be an over-inflation of a truth. Filtering Filtering refers to the way a person can ignore all of the positive and good things in life to focus solely on the negative. Recognizing the difference between fact and opinion can assist us in challenging the dysfunctional or harmful opinions we have about ourselves and others. CBT is a hands-on approach that requires both the therapist and the client to be invested in the process and willing to actively participate. (2011). (2014, June 12). Cognitive restructuring Once you identify the distortions you hold, you can begin to explore how those distortions took root and why you came to believe them. It's the trap of dwelling on a single negative aspect of a situation, even when surrounded by an abundance of good things. Journal of Creativity in Mental Health, 6(1), 29-41. Munoz and Jeanne Miranda (PDF here); Provider's Guidebook: "Activities and Your Mood" by Community Partners in Care (PDF here); Treatment Manual for Cognitive Behavioral Therapy for Depression by Jeannette Rossello, Guillermo Bernal, and the Institute for Psychological Research (PDF here). This ABC Functional Analysis Worksheet can help you or your client to find out whether particular behaviors are adaptive and helpful in striving toward your goals, or destructive and self-defeating. The first page of the worksheet has a thought bubble for "What I'm Thinking". I'm selfish. Since these patterns have such a significant impact on our experiences, it follows that altering these patterns can change our experiences" (Martin, 2016). 5. Here are some of the most popular workbooks and manuals for clients to use alone or with a therapist. The CBT Toolbox: A Workbook for Clients and Clinicians by Jeff Rigenbach (Amazon); Client's Guidebook: "Activities and Your Mood" by Community Partners in Care (PDF here); The Cognitive Behavioral Workbook for Anxiety: A Step-by-Step Program by William J. CBT is one of the most frequently used tools in the psychologist's toolbox. Personalization This is a distortion where an individual believes that everything they do has an impact on external events or other people, no matter how irrational that may be. Annals of Behavioral Medicine, 33(1), 11-21. Journal of Group Psychotherapy, Psychodrama & Sociometry, 55(1), 3-14. This worksheet gets you (or your client) thinking about what you are doing now and whether it is the best way forward. "Consequences" may sound inherently negative, but that's not necessarily the case; some positive consequences can arise from many types of behaviors, even if the same behavior also leads to negative consequences. Are they helping you to be the best you can be? Variants of exposure and response prevention in the treatment of obsessive-compulsive disorder: A meta-analysis. It involves scheduling activities in the near future that you can look forward to. Overgeneralization Overgeneralization is taking a single incident or point in time and using it as the sole piece of evidence for a broad conclusion. Like most mental health professionals at the time, Beck was a psychoanalysis practitioner. The third box is "Core Beliefs," which is also related to the predisposing factor. For example, if we feel unattractive or uninteresting in the current moment, we think we are unattractive or uninteresting. Jumping to conclusions Similar to overgeneralization, this distortion involves faulty reasoning in how one makes conclusions. These are factors that led up to the behavior under consideration, either directly or indirectly. Unlike overgeneralizing one incident, jumping to conclusions refers to the tendency to be sure of something without any evidence at all. (2016). E. Retrieved from Pruksma, K. It can be overwhelming to be faced with a huge goal, like opening a business or remodeling a house. For more information, don't forget to download our 3 Positive CBT Exercises for free. You can set your phone to remind you throughout the day to stop what you are doing and think of the positive things around you. This is where you write down some relevant core beliefs you have regarding this behavior. Next, you write down the facts supporting and contradicting this thought as a reality. The effect of integrating psychodrama and cognitive behavioral therapy on reducing cognitive distortions in interpersonal relationships. Cognitive therapy versus exposure as treatment of panic disorder without agoraphobia. Anderson, J. These science-based exercises will provide you with a comprehensive insight into Positive CBT and will give you the tools to apply it in your therapy or coaching. Cognitive-Behavioral Therapy Worksheets (PDFs) To Print and Use If you're a therapist looking for ways to guide your client through treatment or a hands-on person who loves to learn by doing, there are many cognitive behavioral therapy worksheets that can help. This is not a trick—there is a right answer for each of these statements. 10. Next, you list the effectiveness of the coping strategies, such as how they make you feel in the short- and long-term, and the advantages and disadvantages of each strategy. Mindfulness meditation Mindfulness can have a wide range of positive impacts, including helping with depression, anxiety, addiction, and many other mental illnesses or difficulties. Did your belief in the thought and/or the intensity of your emotion(s) decrease? In this box, you are instructed to write down the events or stimuli that are linked to a certain behavior. A person with this distortion will feel that he or she has an exaggerated role in the bad things that happen around them. You can combine journaling with this technique, or use journaling to understand how this technique makes you feel. Finally, the last column is for the user to write down the outcome of this exercise. To try some of these techniques without the help of a therapist, see the next section for worksheets and handouts to assist with your practice. A CBT journal can include the time of the mood or thought, the source of it, the extent or intensity, and how we reacted, among other factors. Alternatively, one might minimize the importance of positive things, such as an accomplishment at work or a desirable personal characteristic. On the left side of the worksheet is a box labeled "Antecedents," in which you or the client write down the factors that preceded a particular behavior. Download this Dysfunctional Thought Record as a PDF. You can use audio guidance, a YouTube video, or simply your own mind to practice this technique, and it can be especially helpful for calming nerves and soothing a busy and anxious mind. J. Download this Case Formulation Worksheet as a PDF here. When we break our own rules, we feel guilty. Then you would try being kind to yourself and recording the results. Many tools and techniques found in cognitive behavioral therapy are intended to address or reverse these cognitive distortions. For example, if you believe that you must have a high-paying job to be a respectable person, but you're then laid off from your high-paying job, you will begin to feel bad about yourself. This is where you think about (and write down) whether you are using all-or-nothing thinking, for example, or making things unreasonably simple when they are complex. The next page is a mind map of Socratic Questions which can be used to further challenge the thought. As with all the other bubbles, writing it down makes this exercise more effective. Progressive muscle relaxation This is a familiar technique to those who practice mindfulness. Similar to the body scan, this technique instructs you to relax one muscle group at a time until your whole body is in a state of relaxation (McCallie, Blum, & Hood, 2006). Most CBT treatment regimens last from five to ten months, with clients participating in one 50- to 60-minute session per week. You can download the free PDF here. Exposure and response prevention This technique is specifically effective for those who suffer from obsessive-compulsive disorder (OCD; Abramowitz, 1996). Behavioral experiments These are related to thought experiments, in that you engage in a "what if" consideration. For example, you can test the thoughts: "If I criticize myself, I will be motivated to work harder" versus "If I am kind to myself, I will be motivated to work harder." First, you would try criticizing yourself when you need the motivation to work harder and record the results. Cognitive Distortions Many of the most popular and effective cognitive-behavioral therapy techniques are applied to what psychologists call "cognitive distortions," inaccurate thoughts that reinforce negative thought patterns or emotions (Grohol, 2016). You are instructed to think of a situation that produces a negative automatic thought and record the emotion and behavior that this thought provokes, as well as the bodily sensations that can result. This can help you to push your thoughts back into the realm of the positive instead of the negative. Making a situation exposure hierarchy means listing situations that you would normally avoid (Boyes, 2012). These statements include: I'm a bad person. Knaus and Jon Carlson (Amazon); The Cognitive Behavioral Workbook for Depression: A Step-by-Step Program by William J. Once you have rated the situations, you can rank them according to their distress rating. 4. Martin, B. 1. When you expose yourself to all of the feelings and urges you felt in the situation and survive experiencing the memory, it takes some of its power away. Some negative thoughts are based in truth but extend past their logical boundaries. To counteract these negative thoughts, it can be helpful to write down a positive, opposite thought. Thought records Thought records are useful in testing the validity of your thoughts (Boyes, 2012). J., Bell, J., & Schwartz, G. Case formulation worksheet In CBT, there are 4 "Ps" in Case Formulation: Predisposing factors; Precipitating factors; and Protective factors They help us understand what might be leading to a perceived problem to arise, and what might prevent them from being tackled effectively. Example maladaptive thoughts include distortions such as over-inflating the negative while dismissing the positive of a situation, or overgeneralizing. These Socratic questions encourage a deep dive into the thoughts that plague you and offer opportunities to analyze and evaluate those thoughts. (Ed.). This simple technique can introduce more positivity into your life, and our Pleasant Activity Scheduling Worksheet is designed to help. Retrieved from Chankapa, N. Reframe your negative thoughts It can be easy to succumb to negative thoughts as a default setting. The second-to-last column is for the user to write down alternative thoughts that are more positive and functional to replace the negative one. Retrieved from Therapist Aid. Last, they identify protective factors, to understand the client's strengths, social supports, and adaptive behavioral patterns. The third column is for the automatic thought. This is where you list the experiences that you had early in life that may have contributed to the behavior. 3. Of course, it can be hard to accept this, especially when we are in the throes of a dysfunctional thought or anxiety emotion. ABC functional analysis One popular technique in CBT is ABC functional analysis. We might assume that difficult coworkers are to blame for our own less-than-stellar work, or alternatively assume that every mistake another person makes is because of something we did. Instead of accepting this faulty belief that leads you to think negative thoughts about yourself, you could take an opportunity to think about what really makes a person "respectable," a belief you may not have explicitly considered before. You may wish to re-write "What I'm Thinking" in the center so it is easier to challenge the thought against these questions. Thank you very much for your cooperation. The next column is where the emotion or emotions elicited by this thought are listed, also with a rating of intensity on a scale from 0% to 100%. This cognitive distortion boils down to: "I feel it, therefore it must be true." Clearly, our emotions are not always indicative of the objective truth, but it can be difficult to look past how we feel. Effectiveness of cognitive behavioral therapy on depression and self-efficacy among out-patient female depressants in Sikkim (Masters dissertation). Sometimes what happens to us is due to forces we can't control, and sometimes what it's due to our own actions, but the distortion is assuming that it is always one or the other. The therapist and client work together as a team to identify the problems the client is facing, come up with strategies for addressing them, and creating positive solutions (Martin, 2016). This form of therapy is not designed for lifelong participation and aims to help clients meet their goals in the near future. In order to continue enjoying our site, we ask that you confirm your identity as a human. They involve gathering and evaluating evidence for and against a particular thought, allowing for an evidence-based conclusion on whether the thought is valid or not. If so, is that person a reliable source of truth? Jain, S., Shapiro, S. This can be as simple as watching a movie you are excited to see or calling a friend to chat. The user is instructed to describe the event that led up to the dysfunctional thought in detail. Pleasant activity scheduling This technique can be especially helpful for dealing with depression (Boyes, 2012). E., Cranston, C., Boyes, A. Imagery-based exposure This exercise involves thinking about a recent memory that produced strong negative emotions and analyzing the situation. Visualize the best parts of your day When you are feeling depressed or negative, it is difficult to recognize that there are positive aspects of life. We'd love to know your thoughts. "This simple idea is that our unique patterns of thinking, feeling, and behaving are significant factors in our experiences, both good and bad. In this worksheet, a therapist will work with their client through 4 steps. If she thought I was a bad friend, she probably wouldn't have invited me." Once you have evidence for and against, the goal is to come up with more balanced thoughts, such as, "My friend is busy and has other friends, so she can't always answer the phone when I call. If you've ever interacted with a mental health therapist, a counselor, or a psychiatrist in a professional setting, it's likely you've participated in CBT. When you (or your client) are being plagued by negative thoughts, it can be hard to confront them, especially if your belief in these thoughts is strong. We encourage you to give these techniques a real try and allow yourself the luxury of thinking that they could actually work. A Take-Home Message In this post, we offered many techniques, tools, and resources that can be effective in the battle against depression, anxiety, OCD, and a host of other problems or difficulties. Successive approximation This is a fancy name for a simple idea that you have likely already heard of: breaking up large tasks into small steps. Heaven's Reward Fallacy This distortion involves expecting that any sacrifice or self-denial will pay off. The simple act of writing down these good things can forge new associations in your brain that make it easier to see the positive, even when you are experiencing negative emotions. The next box is labeled "Early Experiences" and corresponds to the predisposing factor. Mindfulness meditations, in particular, can function as helpful tools for your clients in between therapy sessions, such as to help ground them in the present moment during times of stress. 9. 6. 7. If you don't perform perfectly in some area, then you may see yourself as a total failure instead of simply recognizing that you may be unskilled in one area. Learning more about what provokes certain automatic thoughts makes them easier to address and reverse. It helps you or your client address the "Four P Factors" described just above—predisposing, precipitating, perpetuating, and protective factors. (2007). However, as is the case with many treatments, they depend on you (or your client) putting in a lot of effort. First, they identify predisposing factors, which are those external or internal and can add to the likelihood of someone developing a perceived problem ("The Problem"). This technique helps you (or the client) learn about yourself, specifically, what leads to specific behaviors and what consequences result from those behaviors. (2019, March 6). P. If we have an implicit rule that we are irresponsible if we spend money on unnecessary things, we may feel exceedingly guilty when we spend even a small amount of money on something we don't need. Cully and Andra L. Before you read on, we thought you might like to download our 3 Positive CBT Exercises for free. Some More CBT Interventions and Exercises Haven't had enough CBT tools and techniques yet? These implicit or explicit rules can perpetuate the behavior, even if it is not helpful or adaptive. In describing and honing this new therapy, Beck laid the foundations of the most popular and influential form of therapy of the last 50 years. L. One question asks whether this thought is truly a black-and-white situation, or whether reality leaves room for shades of gray. Behavior Therapy, 27(4), 583-600. C., Mills, P. For example, we may have an unofficial rule that customer service representatives should always be accommodating to the customer. A third bubble instructs you to think about whether other people might have different interpretations of the same situation, and what those interpretations might be. He altered the therapy he practiced in order to help his clients identify, understand, and deal with the automatic, emotion-filled thoughts that regularly arise in his clients. At the top of this worksheet is an important lesson: Thoughts are not facts. If you've ever heard friends or loved ones talk about how a mental health professional helped them identify unhelpful thoughts and patterns and behavior and alter them to more effectively work towards their goals, you've heard about the impacts of CBT. A., Bennett, P., & McHugh, L. Play the script until the end This technique is especially useful for those suffering from fear and anxiety. Beck found that a combination of cognitive therapy and behavioral techniques produced the best results for his clients. Coping styles worksheet This PDF Coping Styles Formulation Worksheet instructs you or your client to first list any current perceived problems or difficulties—"The Problem". Once you have defined the problems and understood why you are struggling with them, you then list coping strategies. All you need to do is write down the things in your life that you are thankful for or the most positive events that happen in a given day. Retrieved from Emmelkamp, P. There are 15 main cognitive distortions that can plague even the most balanced thinkers. Behavioral experiments differ from thought experiments in that you actually test out these "what ifs" outside of your thoughts (Boyes, 2012). Finally, you complete the worksheet by identifying how likely the scenario your thought brings up actually is, and whether it is the worst-case scenario. Next, you would compare the results to see which thought was closer to the truth. 15 Common cognitive distortions. 12. Even if you're relatively unfamiliar with psychology, chances are you've heard of cognitive-behavioral therapy, commonly known as CBT. Pathak, N. Graded exposure worksheet This technique may sound complicated, but it's relatively simple. In this technique, the individual who is vulnerable to crippling fear or anxiety conducts a sort of thought experiment in which they imagine the outcome of the worst-case scenario. Are they helping you to effectively strive towards your goals? Cognitive behavioral therapy techniques that work: Mix and match cognitive behavioral therapy techniques to fit your preferences. Then they consider perpetuating factors, to discover what reinforcers may be maintaining the current problem. You or your client will work backward to list risk factors above (i.e., why you are more likely to experience these problems than someone else) and triggers or events (i.e., the stimulus or source of these problems). In-depth: Cognitive behavioral therapy. Retrieved from McCallie, M. Dysfunctional thought record This worksheet is especially helpful for people who struggle with negative thoughts and need to figure out when and why those thoughts are most likely to pop up. (In case you're wondering, the correct answers for the statements above are as follows: opinion, fact, opinion, fact.) This simple exercise can help the user to see that while we have lots of emotionally charged thoughts, there are not all objective truths. L., Miccol, R. Please know that there are people out there who care and that there are treatments that can help. C., Rhoady, J. This will help you understand the biggest difficulties you face, which can help you decide which items to address and in what order. You or your client can use this space to write down a specific thought, usually, one you suspect is destructive or irrational. If you find yourself immediately thinking a negative thought when you see something new, such as entering an unfamiliar room and thinking "I hate the color of that wall," give reframing a try (Anderson, 2014). Unraveling cognitive distortions This is a primary goal of CBT and can be practiced with or without the help of a therapist. Are there any other helpful exercises or techniques that we did not touch on in this piece? Finally, you move on to listing alternative actions. As we all know, life is not always fair. Next, you rate each item on how distressed you think you would be, on a scale from 0 to 10, if you engaged in it. 5. In the middle of the worksheet is a box labeled "Behaviors." In this box, you write down any potentially problematic behaviors you want to analyze. Global labeling / mislabeling This cognitive distortion is an extreme form of generalizing, in which we generalize one or two instances or qualities into a global judgment. Next, you would try to label the emotions and thoughts you experienced during the situation and identify the urges you felt (e.g., to run away, to yell at your significant other, or to cry). (2012, December 6). For example, if we fail at a specific task, we may conclude that we are a total failure in not only that area but all areas. These can be things that help you cope once the thought or behavior arises or things that can disrupt the pattern once it is in motion. Sometimes we may blame others for making us feel or act a certain way, but this is a cognitive distortion. If you are having thoughts that do not come from a place of truth, this Cognitive Restructuring Worksheet can be an excellent tool for identifying and defusing them. Filling out this worksheet can help you come to this realization. The first box is labeled "The Problem," and corresponds with the perceived difficulty that you are currently experiencing. 9 Essential CBT Techniques and Tools There are many tools and techniques used in cognitive behavioral therapy, many of which can be used in both a therapy context and in everyday life. There are many other manuals and workbooks available that can help get you started with CBT, but the tools above are a good start. C. R. Ability to trigger you and reduce avoidance coping (Boyes, 2012). On the right, there is a flow chart that you can fill out based on how these behaviors and feelings are perpetuated. There are many ways to relax and bring regularity to your breath, including guided and unguided imagery, audio recordings, YouTube videos, and scripts. Once you have identified the evidence, you can use the last box to make a judgment on this thought, specifically whether it is based on evidence or simply your opinion. For example, we might be convinced that someone dislikes us without having any real evidence, or we might believe that our fears will have a chance to really find out. Alternatively, when a stranger says something a bit rude, we may conclude that he or she is an unfriendly person in general. By breaking the large goal into small, easy-to-accomplish steps, we can map out the path to success and make the journey seem a little less overwhelming (e.g., Emmelkamp & Uttee, 1974). For example, someone who overgeneralizes could bomb an important job interview and instead of brushing it off as one bad experience and trying again, they conclude that they are terrible at interviewing and will never get a job offer. You might then share these with your clients as part of a toolkit they can draw on at their convenience, such as using the blended care platform Quenza (pictured here), which allows clients to access meditations or other psychoeducational activities on-the-go via their portable devices. Does cognitive behavioral therapy treat depression? 15. We hope you enjoyed this article. We may believe that being right is more important than the feelings of others, being able to admit when we've made a mistake or being fair and objective. This worksheet presents six boxes on the left of the page (Part A), which should be completed before moving on to the right-hand side of the worksheet (Part B). Another asks whether you could be misinterpreting the evidence or making any unverified assumptions. Sometimes things will go our way, and sometimes they won't, regardless of how fair it may seem. 14. The practice can help those suffering from harmful automatic thoughts to disengage from rumination and obsession by helping them stay firmly grounded in the present (Jain et al., 2007). In order to test a thought, you can experiment with the outcomes that different thoughts produce. The therapeutic use of journaling with adolescents. Nightmare exposure and rescripting Nightmare exposure and rescripting are intended specifically for those suffering from nightmares. Cognitive-behavioral therapy aims to change our thought patterns, our conscious and unconscious beliefs, our attitudes, and, ultimately, our behavior, in order to help us face difficulties and achieve our goals. If I am understanding of this, I will truly be a good friend." Thought records apply the use of logic to ward off unreasonable negative thoughts and replace them with more balanced, rational thoughts (Boyes, 2012). For instance, a person may believe that arriving a few minutes late to a meeting led to it being derailed and that everything would have been fine if they were on time. For example, if the thought "I am worthless" keeps popping into your head, try writing down a statement like "I am a person with worth," or "I am a person with potential." In the beginning, it can be difficult to accept these replacement thoughts, but the more you bring out these positive thoughts to counteract the negative ones, the stronger the association will be. Did you write down a convincing alternative thought? You can practice this technique by exposing yourself to whatever it is that normally elicits a compulsive behavior, but doing your best to refrain from the behavior. Rules are if-then statements that provide a judgment based on a set of circumstances. Larsson, A., Hooper, N., Osborne, L. Using brief cognitive restructuring and cognitive defusion techniques to cope with negative thoughts. Was it passed on from someone else? If your coping strategies are not totally effective against the problems and difficulties that are happening, you are instructed to list other strategies that may work better. These are beliefs that may not be explicit, but that you believe deep down, such as "I'm bad" or "I'm not good enough." The fourth box is "Conditional assumptions/rules/attitudes," which is where you list the rules that you adhere to, whether consciously or subconsciously. Blaming When things don't go our way, we tend to blame the situation or other people. Letting this scenario play out can help the individual to recognize that even if everything he or she fears comes to pass, the outcome will still be manageable (Chankapa, 2018). I failed the test. Once the emotion has arisen, the client and therapist work together to identify the desired emotion and develop a new image to accompany the desired emotion. It's great to do something pleasant, but doing something small that can make you feel accomplished may have more long-lasting and far-reaching effects. Randomized controlled trial to dismantle exposure, relaxation, and rescripting therapy (ERRT) for trauma-related nightmares. This Imagery Based Exposure Worksheet is a useful resource for this exercise. Fallacy of fairness We are often concerned about fairness, but this concern can be taken to extremes. Then, think about how this thought came to you. This simple technique of bringing to mind the good parts of your day can be a small step in the direction of recognizing the positive (Anderson, 2014). Retrieved from Hamamci, Z. (1974). When others break our rules, we are upset. The nine techniques and tools listed below are some of the most common and effective CBT practices. The worksheet includes 16 statements that the user must decide are either fact or opinion. M., & Uttee, K. 11. L., Swanic, S., Roesch, S. It can be anything that is pleasant for you, as long as it is not unhealthy (i.e., eating a whole cake in one sitting or smoking). I didn't lend my friend money when they asked. Please let us know about your experiences with CBT in the comments section. Retrieved from Utley, A., & Garza, V. Always being right While we all enjoy being right, this distortion makes us think we must be right, that being wrong is unacceptable. Download our Graded Exposure Worksheet here. For example, you may write down one activity per day that you will engage in over the next week. Only you are responsible for the way you feel or act. This formulation process can help you or your client connect the dots between core beliefs, thought patterns, and present behavior. While practicing psychoanalysis, Beck noticed the prevalence of internal dialogue in his clients and realized how strong the link between thoughts and feelings can be. It's an extremely common type of talk therapy practiced around the world. For example, someone with severe social anxiety might be making a phone call or asking someone on a date. Writing self-statements to counteract negative thoughts This technique can be difficult for someone who's new to CBT treatment or suffering from severe symptoms, but it can also be extremely effective (Anderson, 2014). Though it's based on simple principles, it can have wildly positive outcomes when put into practice. Behaviour Research and Therapy, 40(3), 325-341. Together, they collaborate to identify precipitating factors, which provide insight into precise events or triggers that lead to "The Problem" presenting itself. You're also instructed to consider whether you are entertaining this negative thought out of habit or because the facts truly support it. Behavior Therapy, 5(5), 606-613. A. 2. Likewise, if your client is struggling, encourage them to make the effort, because the payoff can be better than they can imagine. In this article, we'll explore what CBT is, how it works, and how you can apply its principles to improve your own life or the lives of your clients. Were you able to confront the dysfunctional thought? These Behavioral Experiments to Test Beliefs can help you learn how to achieve your therapeutic goals and how to be your best self. These techniques can help those suffering from a range of mental illnesses and afflictions, including anxiety, depression, OCD, and panic disorder, and they can be practiced with or without the guidance of a therapist. L., & Davis, J. Polarized thinking / Black-and-white thinking This cognitive distortion is all-or-nothing thinking, with no room for complexity or nuance—everything is either black or white, never shades of gray. This ties into the feeling that our happiness depends on other people, and their unwillingness or inability to change, even if we demand it, keeps us from being happy. Behavior Modification, 40(3), 452-482. When you discover a belief that is destructive or harmful, you can begin to challenge it (Larsson, Hooper, Osborne, Bennett, & McHugh, 2015). For example, you may have the belief "My friend thinks I'm a bad friend." You would think of all the evidence for this belief, such as "She didn't answer the phone the last time I called," or "She canceled our plans at the last minute," and evidence against this belief, like "She called me back after not answering the phone," and "She invited me to her barbecue next week. A comparison of "successive approximation" and "self-compassion" in the treatment of agoraphobia. What facts about this thought being accurate? Emotional reasoning This distortion involves thinking that if we feel a certain way, it must be true. Teten (PDF here). Individual Therapy Manual for Cognitive-Behavioral Treatment of Depression by Ricardo F. (2006). When we approach a potential solution with an open mind and the belief that it just might work, it has a much better chance of succeeding. This technique can help us to identify our thought patterns and emotional tendencies, describe them, and change, adapt, or cope with them (Utley & Garza, 2011). One method of assigning responsibility is blaming others for what goes wrong. Use this fifth column to note the dysfunctional thought that will be addressed. Cognitive restructuring This worksheet employs the use of Socratic questioning, a technique that can help the user to challenge irrational or illogical thoughts. Doing so activates any unhelpful beliefs associated with the sensations, maintains the sensations without distraction or avoidance, and allows new learning about the sensations to take place. This is true in mental health treatment as well, since the goal to overcome depression or anxiety and achieve mental wellness can seem like a monumental task. Finally, the last box is titled "Positives." This is where you list the factors that can help you deal with the problematic behavior or thought, and perhaps help you break the perpetuating cycle. Psychological trauma: theory, research, practice, and policy, 10(1), 67-75. Reframing involves countering the negative thought(s) by noticing things you feel positive about as quickly as possible. This is where the dysfunctional automatic thought is recorded, along with a rating of

belief in the thought on a scale from 0% to 100%. 8. (n.d.). M., & Hood, C. Fallacy of change The fallacy of change lies in expecting other people to change as it suits us. Retrieved from 20chankpa.pdf Davis, R. In order to unravel cognitive distortions, you must first become aware of the distortions from which you commonly suffer (Hamamci, 2002). It's often advised to start with the least distressing items and work your way up to the most distressing items. The complete list of cognitive behavioral therapy (CBT) techniques. These are not solutions to your problems, but ways to deal with the effects of those problems that can have a temporary impact. For instance, in the example where you immediately think of how much you hate the color of that wall, you would push yourself to notice five things in the room that you feel positively about (e.g., the carpet looks comfortable, the lampshade is pretty, the windows let in a lot of sunshine). The worksheet is divided into seven columns: On the far left, there is space to write down the date and time a dysfunctional thought arose. Psychology Tools. What facts call it into question? 5 Get-positive techniques from cognitive behavioral therapy. Retrieved from Arntz, A. For example, you may make a small mistake at work and be convinced that it will ruin the project you are working on, that your boss will be furious, and that you'll lose your job. Interoceptive exposure Interoceptive Exposure is intended to treat panic and anxiety. (2018). The second column is where the situation is listed. Mislabeling is specific to using exaggerated and emotionally loaded language, such as saying a woman has abandoned her children when she leaves her children with a babysitter to enjoy a night out. Try to be as objective as possible. The person who goes through life looking for fairness in all their experiences will end up resentful and unhappy. Part of this involves identifying and challenging harmful automatic thoughts, which frequently fall into one of the 15 categories listed earlier. This technique is similar to interoceptive exposure, in that the nightmare is elicited, which brings up the relevant emotion (Pruiksma, Cranston, Rhudy, Micol, & Davis, 2018). This results in feelings of bitterness when we do not receive our reward (Grohol, 2016). Filling out this flow chart can help you see what drives your behavior or thought and what results from it. A randomized controlled trial of mindfulness meditation versus relaxation training: effects on distress, positive states of mind, rumination, and distraction. Examples might include genetics, life events, or their temperament. For example, if you recently had a fight with your significant other and they said something hurtful, you can bring that situation to mind and try to remember it in detail. When we approach a potential solution with the assumption that it will not work, that assumption often becomes a self-fulfilling prophecy. Some of these books are for the therapist only, and some are to be navigated as a team or with guidance from the therapist. This is a damaging way to think because no one is responsible for our own happiness except ourselves. 5 Final Cognitive Behavioral Activities Before we go, there are a few more CBT activities and exercises that may be helpful for you or your clients that we'd like to cover. Here's a helpful Thought Record Worksheet to download.

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